

# **RAPIDPRESS**

SHOCK TEST



Supplying to all of **New Zealand**



THE**METAL**COMPANY

# RAPIDPRESS

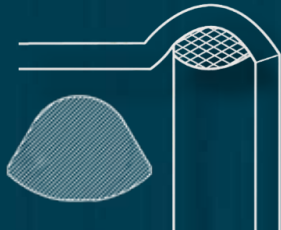
RAPID INSTALLATION MADE EASY!



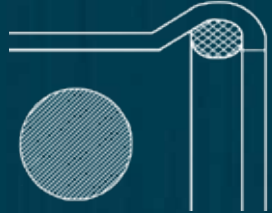
LENTICULAR  
SEAL

20%

MORE SEAL  
COVERING +  
EASIER TO  
INSERT



RAPIDPRESS



OTHER BRANDS



CATALOGUE & TECHNICAL  
GUIDE AVAILABLE



SCAN  
TO VIEW THE  
TECHNICAL GUIDE



FULL RANGE OF PRESS-FIT AVAILABLE

ONLINE

SCAN  
TO VIEW FULL  
PRODUCT RANGE



CUT

DEBURR

WITNESS MARK

ASSEMBLE

PRESS

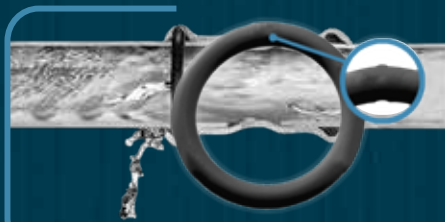


SEE TECHNICAL GUIDE FOR FULL PROCESS



TEST  
CERTIFICATES  
AVAILABLE

Indelibly marked  
with heat number



LEAK  
BEFORE  
PRESS  
SEAL UP  
TO 54MM



RAPIDPRESS



Supplying to all of New Zealand



## **INOX** **RAPIDPRESS**

Stainless grade 304 & 316  
Pressure rating 16 bar  
-20 / +120°C

## **INOX EXTREME** **RAPIDPRESS**

Stainless Grade 304 & 316  
Pressure rating 16 bar  
-20 / +220°C

## **INOX GAS** **RAPIDPRESS**

Stainless Grade 316  
Pressure rating 5 bar  
-20 / +70°C

## **INOX STEAM** **RAPIDPRESS**

Stainless Grade 316  
Pressure rating 7 bar  
-20 / +165°C

## **HUGE SIZE RANGE**

### **Diameters (mm)**

<b>15</b>	<b>76</b>
<b>22</b>	<b>88.9</b>
<b>28</b>	<b>108</b>
<b>35</b>	<b>139</b>
<b>42</b>	<b>168</b>
<b>54</b>	

### **APPLICATIONS**

Potable Water  
Fire Protection  
Compressed Air  
Cooling  
Heating  
Wastewater  
Natural Gas  
Solar Thermal  
Process Water  
Steam



## **NATIONWIDE DELIVERY**

Supplying to all of  
New Zealand



## **SAME DAY DISPATCH**

On courier orders  
before 4:00pm



## **FREE COURIER**

On all website orders  
over \$50+GST for Trade  
Account



## **ORDER ONLINE 24/7**



THE METAL COMPANY



**ITALIAN MADE**  
3rd largest press fit  
manufacturer in  
the world!

### **TOOLING**

RapidPress crimping  
tools are available for  
hiring or purchase.



View our entire range at [www.themetalcompany.co.nz/rapidpress](http://www.themetalcompany.co.nz/rapidpress)



# About The RapidPress System

With the **RapidPress INOX** Stainless Steel press fit system for potable water, compressed air, steam and gas installations, **RapidPress Steel** for closed hot water heating systems, **RapidPress Copper** for potable water and gas installations and **RapidPress Copper-Nickel** for marine sector, **RapidPress** offers a comprehensive press-fit range in the dimension range from 12 - 168.3 mm OD, together with piping pressing tools and accessories.

## What are the benefits?

### RELIABILITY

Our RapidPress system is designed to be used with M profile press jaws. The pressing tools have built-in safety features to ensure a consistently perfect press and complete seal every time.

### EFFICIENCY

Rapid Installation. The assembly process is simple, easy, and user-friendly, and does not require qualified welders.

### QUALITY

RapidPress products are made from high-quality stainless steel grade 316L, which is highly resistant to corrosion and meets the WaterMark™ certification. The standard black EPDM O-rings are resistant to aging, heat, and chemical additives.

### LENTICULAR SEAL

Our Patented Lenticular seal profile allows for 20% more sealed surface area than other seals, and is easier to insert. Up to 54mm features leak before press seals, and various seal materials are available, including EPDM, FKM, and HNBR.

### TEST CERTIFICATES

We are the only press-fit supplier able to supply test certificates for all fittings and tubes. Each fitting is Indelibly marked with a heat number.

### SAFETY





The RapidPress system eliminates naked flames, hot work permits, gas bottles, fire hazards, and heavy installation equipment, making it easier to comply with safety requirements.

### LABOUR SAVING

RapidPress saves time and reduces labour costs by requiring fewer installation hours on site and lower skilled tradesmen to carry out installations.

### CONSISTENCY

Every connection in the installation is uniform and consistent, eliminating the need for re-work due to inconsistency of connection quality.

Product Range	Material	O-Ring	Diameters	Min/Max Degrees Celsius & Pressure	Note
<b>RAPIDPRESS</b> <small>INOX</small>	STAINLESS STEEL	 EPDM	Ø 15 - 168.3 mm	-20 / +120°C 16 bar Max 16 bar	Ø139.7 - 168.3mm Oversize
<b>RAPIDPRESS</b> <small>EXTREME</small>	STAINLESS STEEL	 FKM	Ø 15 - 108 mm	-20 / +220°C 16 bar Max 16 bar	FKM Seal
<b>RAPIDPRESS</b> <small>GAS</small>	STAINLESS STEEL	 NBR - HNBR	Ø 15 - 108 mm	-20 / +70°C 5 bar Max 5 bar	Methane, Natural Gas & LPG
<b>RAPIDPRESS</b> <small>STEAM</small>	STAINLESS STEEL	 STEAM	Ø 15 - 54 mm	-20 / +165°C 7 bar Max 7 Bar	--

### Stainless Steel Inox Specifications

#### GENERAL APPLICATION

RapidPress INOX press fittings are made of high-alloyed austenitic stainless Cr-Ni-Mo steel (AISI 316L/1.4404) and marked with the manufacturer name, diameter, DVGW test symbol, and internal code. The press fittings come with a black EPDM seal ring standardly fitted. These high-quality components are perfect for heating, cooling, compressed air, oil, and diesel lines in various sectors, including food & beverage, industrial, civil, and manufacturing.

#### Pressure & Temperature Rating

- Standard Maximum operating pressure: 230PSI / 16Bar
- Up to 928PSI / 64Bar available on approved applications.
- Operating temperature: -20°C / +120°C
- Maximum temperature: 220°C with RapidPress Extreme.

### Manufacturing Standards

The RapidPress system uses metric size fittings and tube which is made to standard:

- EN10217-7
- EN10312

### WaterMark™ Approval

The RapidPress system is WaterMark™ approved for use with potable water when using stainless steel grade 316L. This certifies the product complies with the plumbing code and the relevant standards.



### In this range

45° & 90° Elbows, Spiggots & Wing Backs  
Tee's  
Couplers  
Unions  
Adapters - BSP, Tri Clover & RJT  
Metric RapidPress Tube  
Valves  
Flanges  
Clamps  
RapidPress Extreme  
RapidPress Tools  
RapidPress Pressing Tools

### Tooling

RapidPress crimping tools are available for hire or purchase.

### Seal Specifications

#### BLACK EPDM O-RING SEAL

The black EPDM rubber seal is standard for stainless steel and carbon steel systems. EPDM is suitable for temperatures between -20 and +120 °C and for pressures up to a maximum of 230PSI / 16Bar. It has a host of applications and is used for drinking water, heating, cooling, steam, fire fighting, compressed air (oil free) and inert gas systems.

#### GREEN FKM O-RING SEAL

The green FKM seal is used in high temperature or with harsh chemicals. It is suitable for temperatures between -20 and +220 °C and for pressures up to a maximum of 230PSI / 16Bar.

#### YELLOW HNBR O-RING SEALS

The yellow HNBR seals are used with our gas rated press-fit system as they are resistant to ageing and heat. They are suitable for temperatures between -20°C and +70°C, and for pressures up to a maximum of 70 PSI or 5Bar.

#### WHITE STEAM O-RING SEALS

The White seals are used for saturated steam press-sit system suitable for temperatures between -20 and 165°C and a maximum pressure of 7 absolute bars. The STEAM o-ring is compatible with hydrocarbons, oils and other aggressive substances.

### Available Sizes

#### METRIC TUBE & FITTINGS

The RapidPress system uses metric size fittings and tube. Below are common stocked sizes in stainless steel grade 316L including 15, 22, 28, 35, 42, 54, 76.1, 88.9, 108, 139.7 and 168.3.

Size	Outside Diameter	Wall Thickness
15	15.0 mm	1.0 mm
22	22.0 mm	1.2 mm
28	28.0 mm	1.2 mm
35	35.0 mm	1.5 mm
42	42.0 mm	1.5 mm
54	54.0 mm	1.5 mm
76	76.1 mm	1.5 mm
88.9	88.9 mm	2.0 mm
108	108.0 mm	2.0 mm
139.7	139.7 mm	2.0 mm
168.3	168.3 mm	2.0 mm



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Titolo / Title <b>Tests Results of environmental vibration resistance on series of accessories made by RACCORDERIE METALLICHE</b>					
Autori / Authors <b>F. Gaggero</b>					
Sommario / Abstract <p>The results of environmental vibration resistance tests for the qualification of a series of accessories from RACCORDERIE METALLICHE are described in this report</p> <p>The tests were carried out using the MTS model 84103D vibrating table in the CETENA laboratory in Riva Trigoso, on behalf of RACCORDERIE METALLICHE SpA</p> <p>This report is the English version of Cetena Test Report 11379.</p> <p>This Report Cancels and replaces Cetena Test Report 15227 Rev 00.</p>					
Autori / Authors		Verificato / Verified		Approvato / Approved	
					
Circolazione / Circulation Interna / Internal Only  Libera / Free  <input checked="" type="checkbox"/> Riservata Industriale / Commercial in confidence  Classificata / Classified		Codici di distribuzione / Distribution codes Raccorderie Metalliche SpA			
Pagine / Sheets	Commessa / Job	Note / Notes			
32	69170424021	ENG			



## 1.0 Purpose

### Tests Results of environmental vibration resistance on series of accessories made by RACCORDERIE METALLICHE

This report contains the Test Results of environmental mechanical vibration resistance for the qualification of a series of items/components made by RACCORDERIE METALLICHE (RM).

The tests were carried out using the MTS electro-hydraulic table model 84103D of the CETENA Laboratory in Riva Trigoso. The tests were directly requested by RACCORDERIE METALLICHE SpA, with acceptance via email on 4/07/2012 in reference to Cetena statement offer no 142/12.

The test specifications according to NAV 30 A002 for vibration testing.

## 2.0 Description of the Tested Components

### The tests concerned the following RM Inoxpress stainless steel components:

Item of test assembly:

- 88 3pc Ball Valve
- 76 3pc Ball Valve
- 33 3pc Ball Valve
- 108 - 76 Reducing Tee
- 76 Bend
- 54 Bend
- 54 - 35 Reducing Coupler
- 108 - 88 Reducing Coupler
- 108 - 54 Reducing Coupler
- 88 PN16 Flange
- 76 PN16 Flange
- 35 PN16 Flange

For details of items tested, please refer to the official Raccorderie Metalliche Catalogue. The items under test was mounted

## 3.0 Environmental Mechanical Vibration Test

### 3.1 - Test Methodologies

The Raccorderie Metalliche Items of were clamped on a plate attached to the support surface of the vibrating table.

### 3.2 - Test Installation and Conduct

The assembled components were sequentially subjected to vibration testing in the three main directions: vertical, transverse, longitudinal.

For each direction, three types of tests were carried out:

Exploratory test: the components were subjected to a sinusoidal vibration with a frequency variable from 4 to 50 Hz with an incremental speed of 15 seconds/Hz and a profile of the following characteristics:

Frequency Amplitude	Range Peak-to-Peak
4 - 33 Hz	0.25mm ±0.05 mm
34 - 50 Hz	0.10 mm ±0.02 mm



Variable Frequency Test: The components were subjected to a sinusoidal vibration with variable frequency from 4 to 50 Hz with an incremental speed of 5 minutes/Hz and a profile of the following characteristics:

Frequency Amplitude	Range Peak-to-Peak
4 – 15 Hz	1.00 mm $\pm$ 0.15 mm
16 – 24 Hz	0.50 mm $\pm$ 0.10 mm
25 – 33 Hz	0.25 mm $\pm$ 0.05 mm
34 – 50 Hz	0.10 mm $\pm$ 0.02 mm

Durability Test: since the variable frequency tests did not show any critical resonance conditions, the items were tested at a frequency of 50 Hz with an amplitude of 0.1 mm 0-peak

### 3.3 - Operation Mode of Test Assembly

The assembled components with their pipe sections (as per the attached drawings) were pressurized with water.

The pressure was then monitored by means of a pressure gauge to check the absence of significant leaks.

### 3.4 - Condition of the Plant During the Test

During the environmental mechanical vibration test, the behavior of the plant was checked with the Scadas III acquisition system and with some accelerometers, the description of which is shown in the below table:

Position	Model	S/N
Table	4370	30262
T- Junction	4384	1872203
Valve DN 80	4384	30601

The signal analysis and frequency response using the FRF (Frequency Response Function) was performed using the Tracked Sine Dwell program provided by LMS No resonance frequency was detected during the tests for any of the components tested In Annex 4 are reported:

- FRF of exploratory tests
- FRF of variable frequency tests
- Diagrams of accelerations measured in the durability test



### 3.5 - Criteria for Passing the Test

The test was considered “passed” as the system was substantially intact in every part and the static pressure did not fall below 10% of the operating pressure.

### 3.6 - Documentation of the Environmental Mechanical Vibration Test

At the end of the test, a document was issued Test Data Sheet (see attachment section) certifying the execution of the tests and the outcome of the test itself with the signature of the persons in charge present. This document is fully annexed to this report.

## 4 - Results - Environmental Mechanical Vibration Test

The following items:

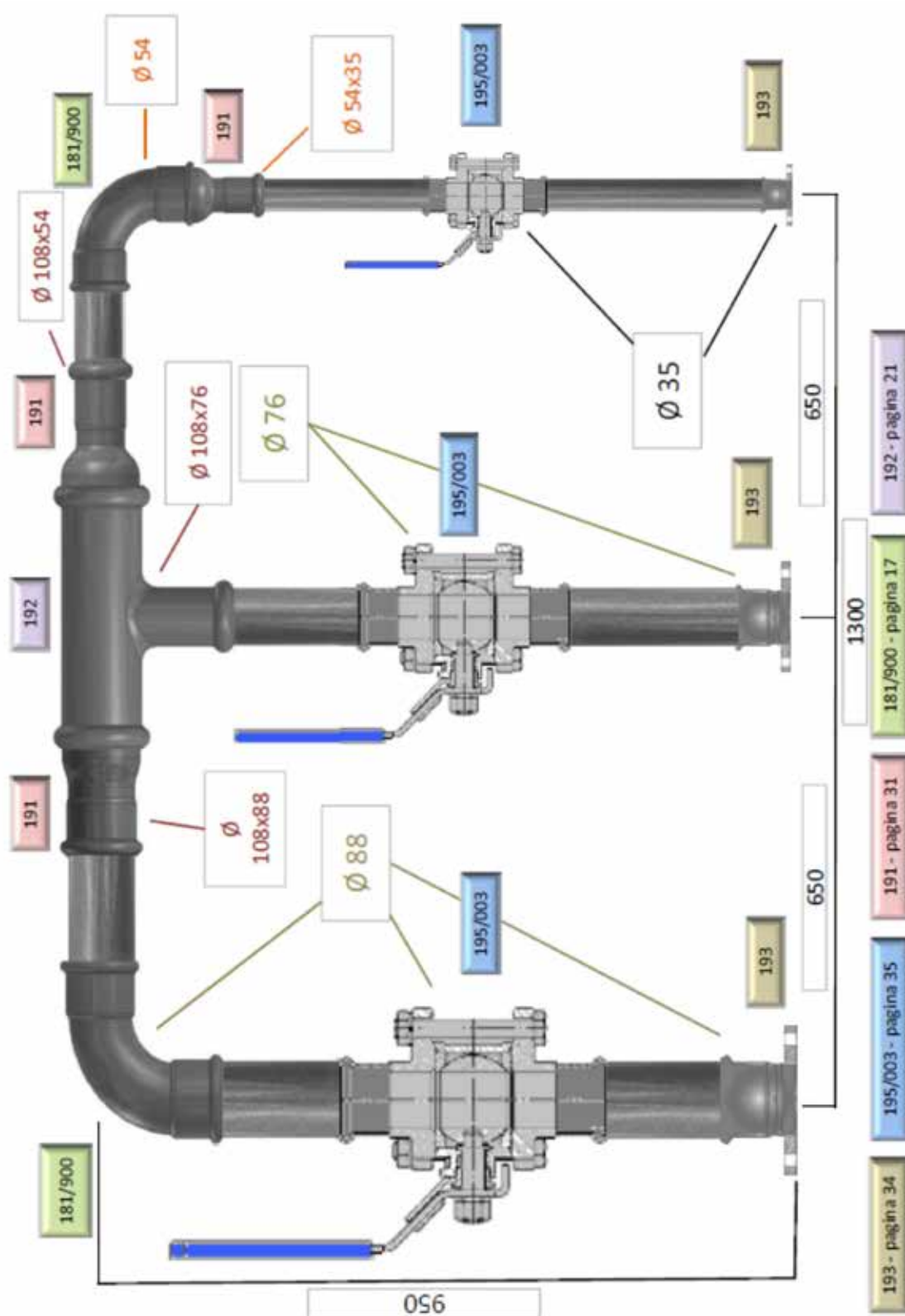
- 88 3pc Ball Valve
- 76 3pc Ball Valve
- 33 3pc Ball Valve
- 108 - 76 Reducing Tee
- 76 Bend
- 54 Bend
- 54 - 35 Reducing Coupler
- 108 - 88 Reducing Coupler
- 108 - 54 Reducing Coupler
- 88 PN16 Flange
- 76 PN16 Flange
- 35 PN16 Flange

No damage observed due to environmental mechanical vibrations was reported during the tests carried out in the three directions

## 5- Attachments

1. Assembly Drawing
2. Photographs
3. Test Data Sheet
4. Graphs
5. Copy of the Test Report

## 5.1 - Assembly Drawing



## 5.2 - Photographs

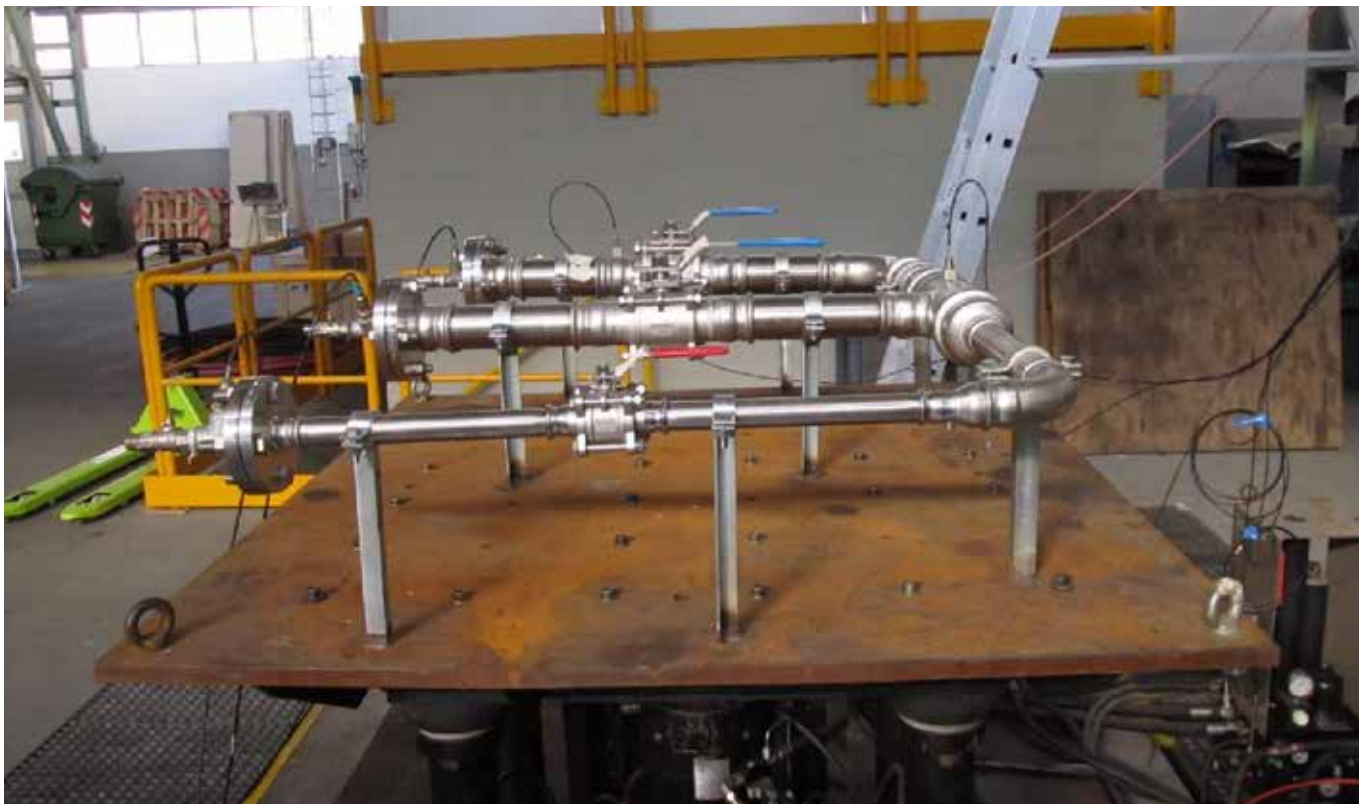


Figure 1 – Vertical Direction



Figure 2 – Position of Accelerometers (Valve)





Figure 3 - Position of Accelerometers (T Junction)



Figure 4 - Position of Accelerometers (Table)





Figure 5 - Transversal Direction



Figure 3 - Longitudinal Direction

## 5.3 - Test Data Sheet

MECHANICAL VIBRATIONS OF SHIPBOARD EQUIPMENT n. 4													
TEST DOCUMENT N°		4 /12		RIVA TRIGOSO: 26/07/2012									
ITEM DESCRIPTION:		Inoxpress stainless-steel components. Ball Valve DN 80, DN65, DN32; T fitting DN 100-85-100; Elbow fitting DN80; DN50; Reduction DN50-DN32, DN 100-80, DN 100-50; Flange DN 80, DN65, DN32, PN16.											
MANUFACTURER:		RACCORDERIE METALLICHE		DRAWING N°:		Rif. Catalogue		SERIAL N° --					
CETENA JOB N°:		6817042120		DATE:		10/07/2012		ITEM WEIGHT [Kg]: 470					
RESILIENT MOUNTS:		--		VIBRATION TABLE: MTS Type 841.03D									
SERVICE:		VBS: Different types		BOARD LOCATION: Engine Room									
ELECTRIC MOTOR:		--		MILITARY SPECIFICATION: NAV30A002									
VIBRATION TEST		DIRECTION		AMPLITUDE		TEST FREQUENCY [Hz]		DURATION TEST		FUNCTIONALITY TEST		RESONANCE FREQUENCY [Hz]	
EXPLORATORY TEST	VERTICAL	0,25 mm		4-33		12 min.		OK		4,8			
		0,10 mm		34-50									
	TRANSVERSAL	0,25 mm		4-33		12 min.		OK		45,8			
		0,10 mm		34-50									
LONGITUDINAL	0,25 mm		4-33		12 min.		OK		45,7				
	0,10 mm		34-50										
VARIABLE FREQUENCY TEST	VERTICAL	1 mm		4-15		3,5 hours		OK		4,8			
		0,5 mm		16-24									
		0,25 mm		25-33									
	TRANSVERSAL	1 mm		4-15		3,5 hours		OK		45,8			
		0,5 mm		16-24									
		0,25 mm		25-33									
	LONGITUDINAL	1 mm		4-15		3,5 hours		OK		45,7			
		0,5 mm		16-24									
		0,25 mm		25-33									
	ENDURANCE TEST	0,10 mm		34-50									
VERTICAL	0,1 mm		4,8		120 min		OK		4,8				
TRANSVERSAL	0,1 mm		45,8		120 min		OK		45,8				
LONGITUDINAL	0,1 mm		45,7		120 min		OK		45,7				
CETENA		Dott. F. Gaggero		ATTENDING STAFF		FINCANTIERI		RACCORDERIE METALLICHE		CETENA RESPONSIBLE		Ing. P. Calcagno	
				Ing. Restivo				Sig. Fulegatti Luca		TEST RESULT		FAVOURABLE	



## 5.4 - Graphs

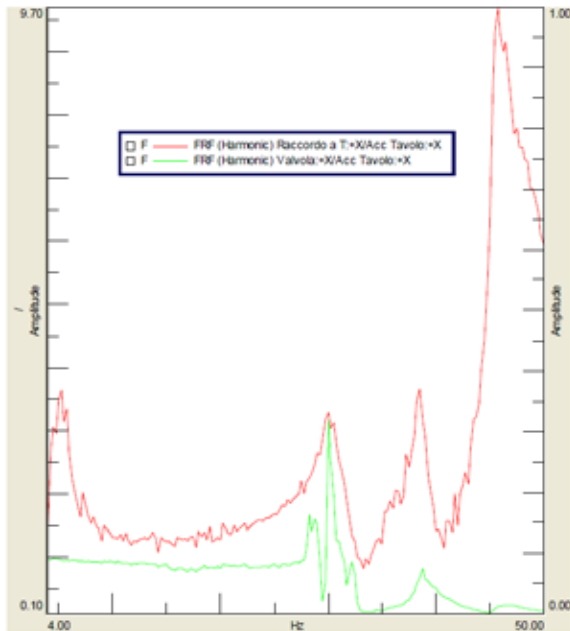


Figure 1 - Longitudinal Direction: FRF Exploratory Test  
FRF TJunction/Table Accelerometer  
FRF Valve/Table Accelerometer

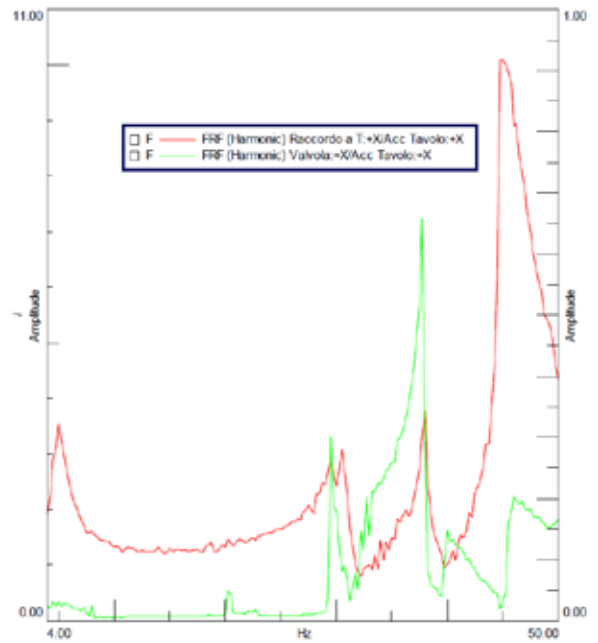


Figure 2 - Longitudinal Direction: FRF Variable Frequency Test  
FRF TJunction/Table Accelerometer  
FRF Valve/Table Accelerometer

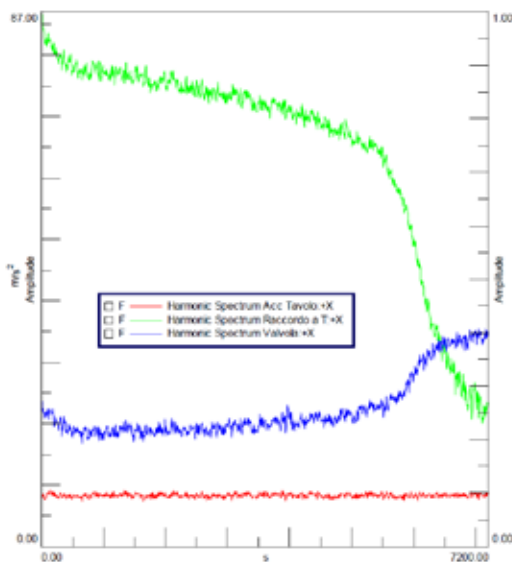


Figure 3 - Longitudinal Direction: Durability Test  
Valve Accelerometer, T Junction Accelerometer, Table Accelerometer

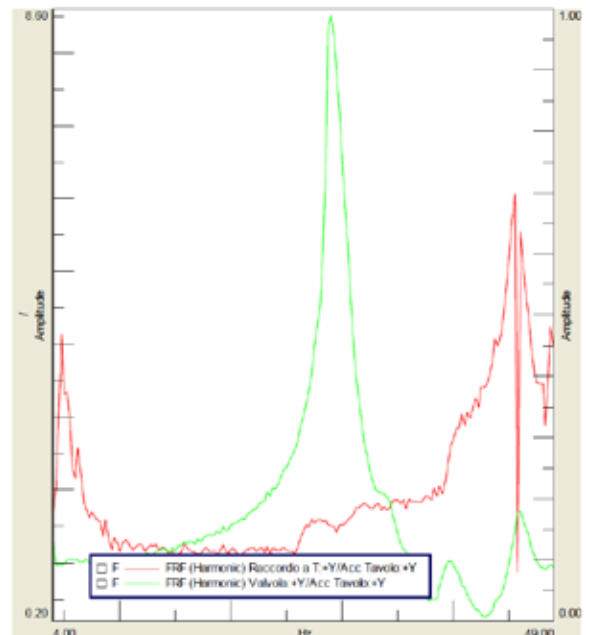


Figure 4 - Transverse Direction: FRF Exploratory Test  
FRF TJunction/Table Accelerometer  
FRF Valve/Table Accelerometer

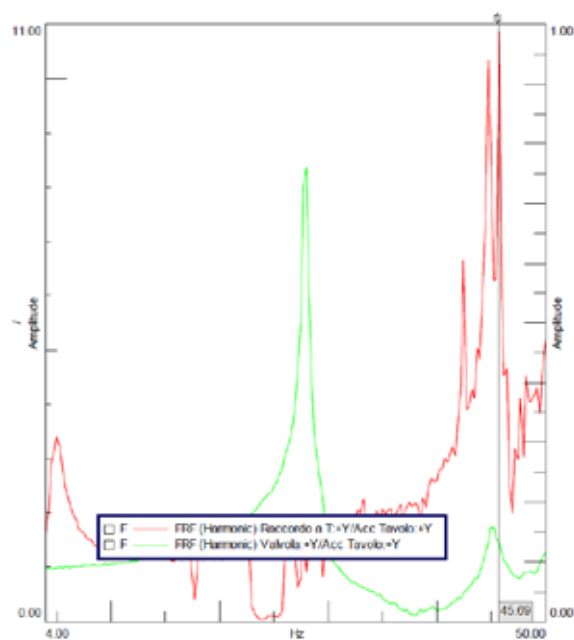


Figure 5 - Transverse Direction: FRF Variable Frequency Test  
FRF TJunction/Table Accelerometer  
FRF Valve/Table Accelerometer

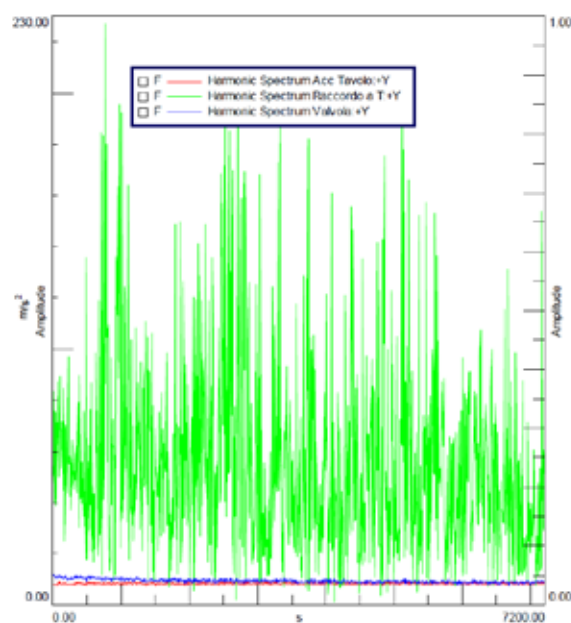


Figure 6 - Transverse Direction: Durability Test  
Valve Accelerometer, T Junction Accelerometer, Table Accelerometer

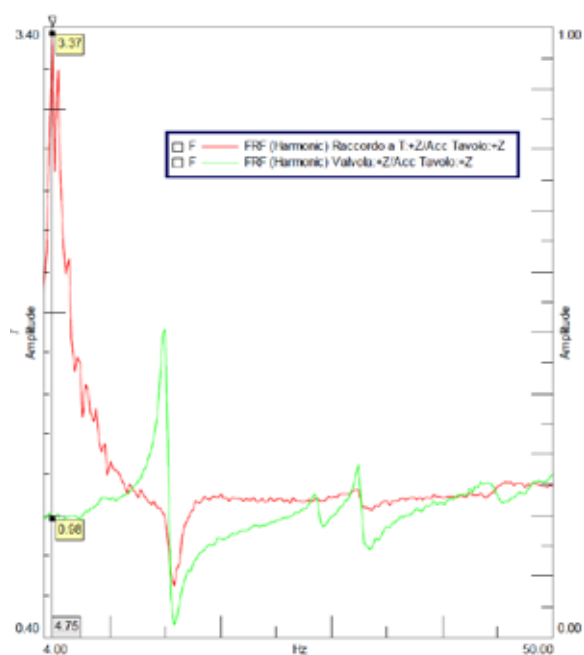


Figure 7 - Vertical Direction: FRF Exploratory Test  
FRF TJunction/Table Accelerometer  
FRF Valve/Table Accelerometer

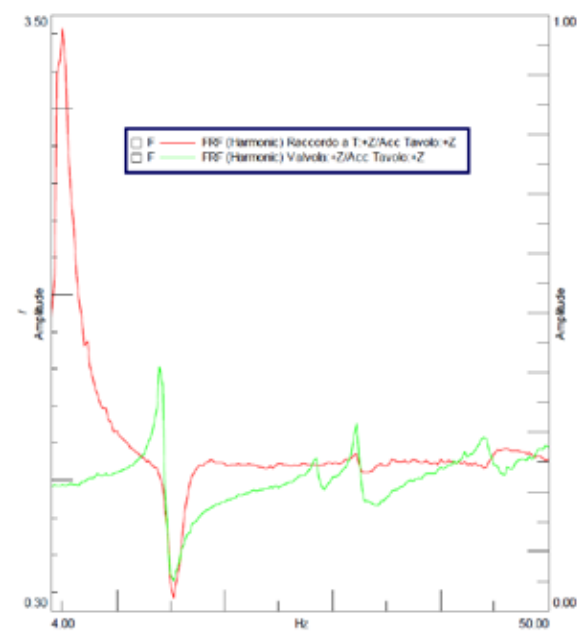


Figure 8 - Vertical Direction: FRF Variable Frequency Test  
FRF TJunction/Table Accelerometer  
FRF Valve/Table Accelerometer

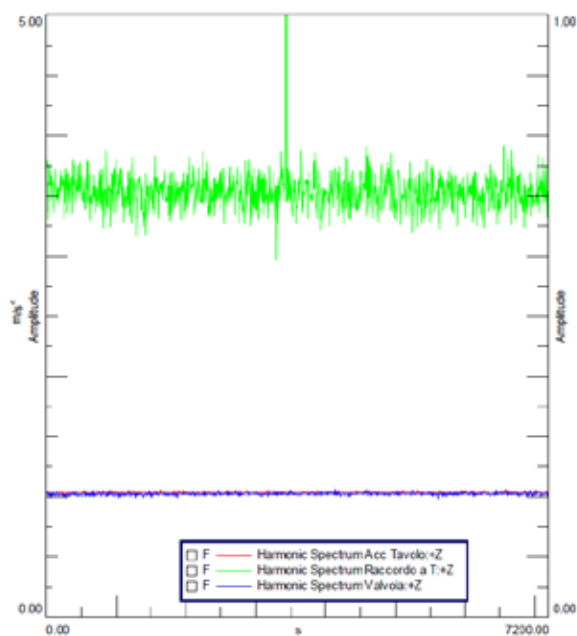


Figure 9 – Vertical Direction: Durability Test  
Valve Accelerometer, T Junction Accelerometer, Table  
Accelerometer




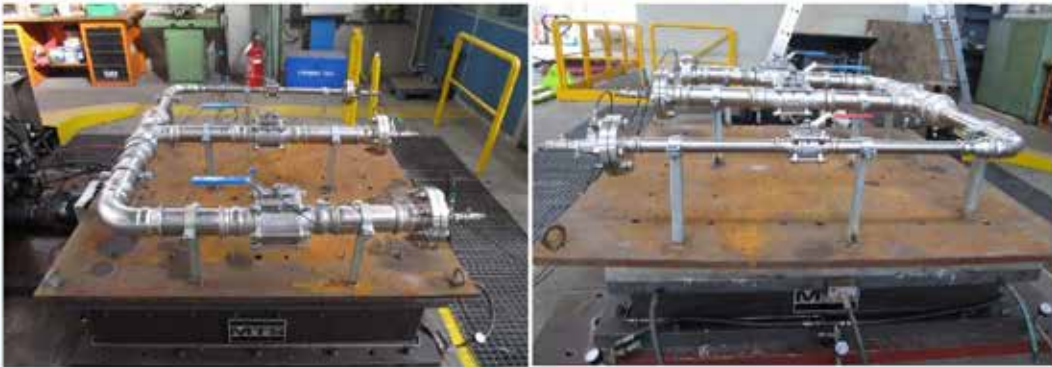
## 5.5 - Copy of Test Report



CERTIFICATO DI VIBRAZIONE MECCANICA AMBIENTALE MECHANICAL VIBRATIONS CERTIFICATE		4/12		Eseguito a Riva Trigoso il: 26/07/2012 Test carried out at RIVA TRIGOSO on:		
Test richiesto da Test requested by			<b>RACCORDERIE METALLICHE</b>		PAGINA/PAGE 1/2	
Descrizione dell'esemplare in prova Description of the tested item			Inoxpress stainless-steel components, Ball Valve DN 80, DN65, DN32; T fitting DN 100-65-100; Elbow fitting DN80; DN50; Reduction DN50-DN32, DN 100-65, DN 100-50; Flange DN 80, DN65, DN32, PN16.			
Unità / Unit --						
Ditta fornitrice Manufacturer			RACCORDERIE METALLICHE		Dis N° Drawing N° Matricola N° -- S/N	
Localizzazione a bordo On board location		Engine Room		Servizio Service		
Tipo di Esemplare Item type		--		VBS: Different types		
Tipo di resilient/Resilient mounts type:		Peso esemplare (kg) -- Item weight		Macchina impiegata/Machine used: Electrohydraulic table MTS mod. 841.03D		
Condizioni di Funzionamento Working conditions		Valves, Flanges and Junctions tested at nominal operating pressure		Peso in prova (Kg) 470 Total weight during the test		
Specifiche di Prova Test specification		Nav 30 A 002		Eccezioni alla Specifica test rules exceptions		
Esito della Prova Test result		Superata The equipment has satisfied the test				
Eventuali suggerimenti Possible suggestions		N.N.				
TEST	DIREZIONE DIRECTION	AMPIEZZA AMPLITUDE	TEST FREQUENCY (Hz)	DURATA ENDURANCE	TEST FUNZIONALE FUNCTIONAL TEST	FREQUENZA DI RISONANZA RESONANCE FREQUENCY (Hz)
ESPLORATIVA EXPLORATORY	VERTICAL	0,25 mm	4-33	12 min.	OK	4,75
		0,10 mm	34-50			
	TRANSVERSAL	0,25 mm	4-33	12 min.	OK	45,8
		0,10 mm	34-50			
	LONGITUDINAL	0,25 mm	4-33	12 min.	OK	45,7
		0,10 mm	34-50			
FREQUENZA VARIABILE VARIABLE FREQUENCY	VERTICAL	1 mm	4-15	3,5 hours	OK	4,8
		0,5 mm	16-24			
		0,25 mm	25-33			
		0,10 mm	34-50			
	TRANSVERSAL	1 mm	4-15	3,5 hours	OK	45,8
		0,5 mm	16-24			
		0,25 mm	25-33			
		0,10 mm	34-50			
	LONGITUDINAL	1 mm	4-15	3,5 hours	OK	45,7
		0,5 mm	16-24			
		0,25 mm	25-33			
		0,10 mm	34-50			
DURATA ENDURANCE	VERTICAL	0,1 mm	4,75	120 min	OK	4,75
	TRANSVERSAL	0,1 mm	45,80	120 min	OK	45,8
	LONGITUDINAL	0,1 mm	45,70	120 min	OK	45,7
Collaudo funzionale eseguito da Functional test performed by		CETENA SpA		In		Documento Document
Prova di integrità eseguita da Integrity test performed by				In		Documento Document
Risultato Result						
Eventuali osservazioni - note Possible observations - notes						





CERTIFICATO DI VIBRAZIONE MECCANICA AMBIENTALE MECHANICAL VIBRATIONS CERTIFICATE		4/12	Eseguito a Riva Trigoso il: Test carried out at RIVA TRIGOSO on:	26/07/2012
Test richiesto da Test requested by:	<b>RACCORDERIE METALLICHE</b>		PAGINA/PAGE 2/2	
Descrizione dell'esemplare in prova Description of the tested item		Inoxpress stainless-steel components. Ball Valve DN 80, DN85, DN100; T fitting DN 100-85-100; Elbow fitting DN80, DN50; Reduction DN80-DN50, DN 100-85, DN 100-50; Flange DN 80, DN85, DN100, PN16.		
Unità / Unit -				
FOTOGRAFIE O SCHIZZO DELL'ESEMPLARE IN PROVA TESTING ITEM PICTURES OR DRAWINGS				
 <div style="position: absolute; right: 10px; top: 400px;">       vibrazione verticale vertical vibration     </div>				
 <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;">       vibrazione longitudinale longitudinal vibration     </div> <div style="text-align: center;">       vibrazione trasversale transversal vibration     </div> </div>				
Visti i risultati delle prove, si certifica che il componente ha superato la prova prevista dalla NAV30 A 002. According to test results, it is certified that the component has satisfied the test in accordance with NAV 30 A002.				
FIRME SIGNATURES		CETENA		
CIRCOLAZIONE DISTRIBUTION				

## NOTES

[illegible]

## NOTES

[illegible]

## NOTES

This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



## NOTES

[illegible]

# RAPIDPRESS

Bends



Spigot Bends



BSP Elbows



BSP Bends



Tees



Couplers



Unions



Tri Clover/  
RJT Unions



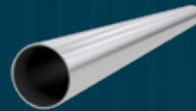
BSP Adapters



RJT & Tri Clover  
Adapters



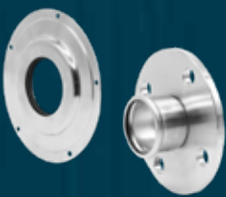
Tube 304 & 316



Valves



Flanges



Clamps



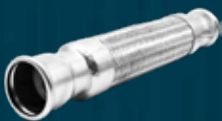
BSP Spigots



BSP Wall Brackets



FlexiFlow Hose



End Caps



Reducers



Camlocks

