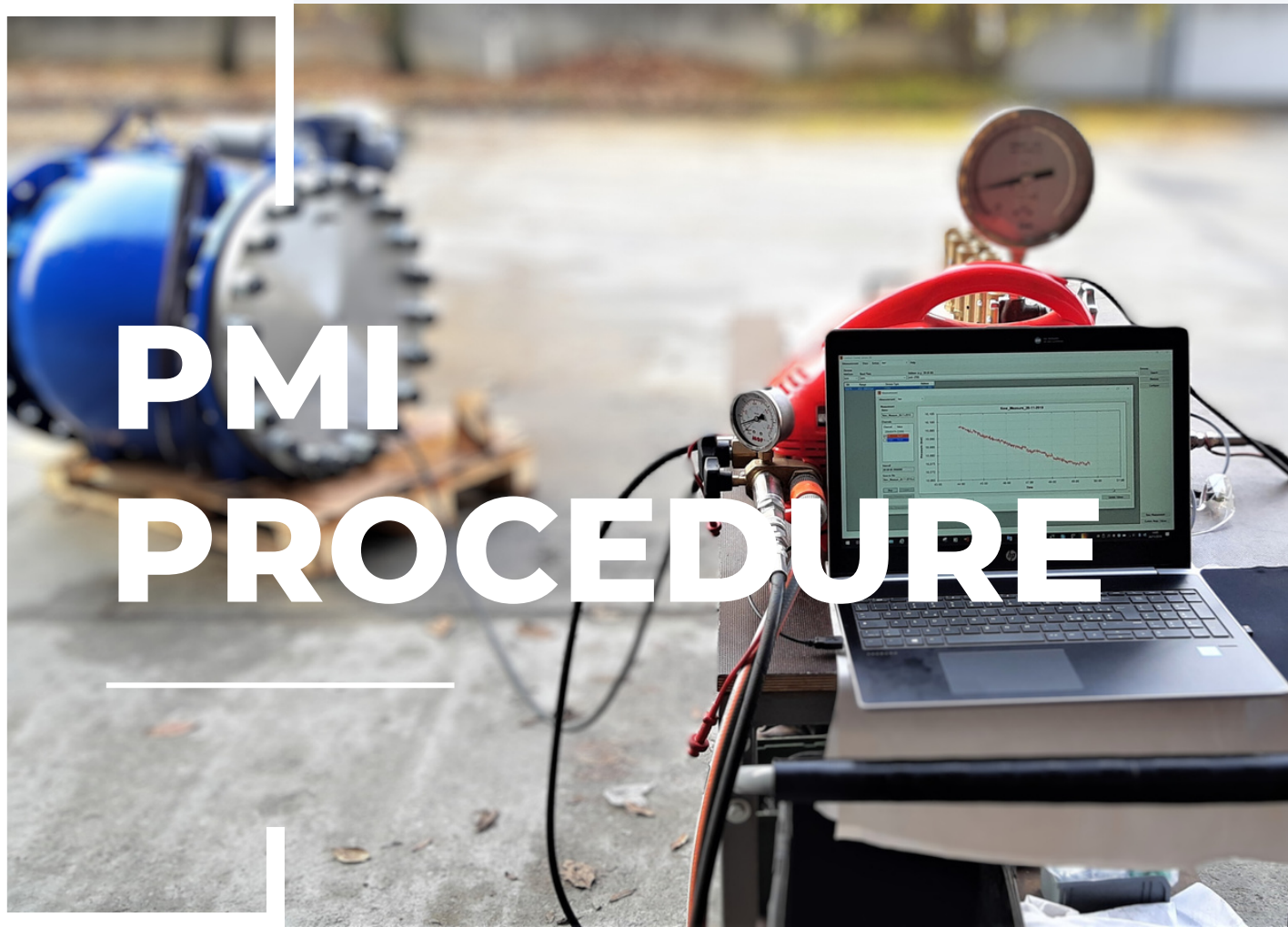




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PMI PROCEDURE

PRO AT FLUID CONTROL



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1) Introduction

This procedure specifies the requirement of Quality Assurance for **Identification of materials** during the project order processing.

2) Scope

To carry out **Positive Material identification**, using **X-Ray Fluorescent (XRF)** Technology. It is to measure the concentration of elements without causing any damage to the component being examined.

3) Equipment

The equipment used is **Thermo Fisher Scientific Niton XL2-202218 Analyzer** for verification of elements composition in various types of materials. The instrument is a fully portable analyzer with an integrated computer, within the INNOV-X DELTA DS-2000 SN 500185 analysis program for display / view spectra and save data.

General Metals Analysis can measure different elements regardless of concentration basing on the testing scheme **1 hit x material heat**.

4) Testing Procedure

After checking the instrument proper calibration, place probe on the material / sample to be tested and press the trigger keeping the probe on the sample / material during the entire measurement. The display will indicate the composition on each element in percentage with deviation and also the common alloy detected, i.e. 316/ 304/ etc. Measurements will be stored in the Instrument memory. Stored measurement data can be printed for evaluation and reporting.

5) Traceability

Spot or area tested could be identified by reference pictures or as per applicable specification.

6) Reporting

All tests shall be provided according to the last revision of the company standard inspection report format (see point No. 10 below)



7) valveIT - PMI Certificate Sample

PMI Test Certificate

XL2-202218

Reading No	39
Mode	General Metals
Time	2023-11-24 08:00
Duration	8.74
Units	%
Sigma Value	2
Sequence	Final
Alloy1	SS-316 : *2.45
SAMPLE	DFV300.UPN10.DI.SS.E+SQ
HEAT	H2021
LOT	SFAX SWRO 100 MLD
BATCH	220926012022140
MISC	POS.19 (OC)

Ele	%	+/-	$\pm 2\sigma$
Mo	2.234	+/-	0.055
Zr	0.165	+/-	0.016
Cu	0.233	+/-	0.103
Ni	*9.235	+/-	0.375
Co	0.628	+/-	0.292
Fe	70.040	+/-	0.537
Cr	17.094	+/-	0.302

Verified by valveIT QA/QC Dept.: _____