# VALIDATION & QUALIFICATION PACKAGES



# INDEX

# Packages

- Qualification Plan (QP)
- Pharma Risk Analysis (RA)
- **03** Functional and Design Specifications (FDS)
- Hardware Design Specifications (HDS) & Software Design Specifications (SDS)
- Design Qualification (DQ) Protocol
- **06** Pharma Factory Acceptance Test (FAT) Protocol
- SAT (Site Acceptance Test) Protocol
- IQ (Installation Qualification) Protocol
- OQ (Operational Qualification) Protocol



# PACKAGES

**Qualification and Validation: modular packages of** documentation

- Enflex has a **specific team** dedicated to the creation of **validation** documentation and the **qualification of equipment** for GMP environments
- We can also count on the support of **external consulting firms** with extensive experience in the pharmaceutical sector
- We have designed our Validation & Qualification documents in **modular packages**, to meet the simplest to the most complex needs

Basic	Image: Weight of the second
Installation Qualification (IQ) Operational Qualification (OQ)	Pharma Factory Acceptance Test (FAT) Site Acceptance Test (SAT) Installation Qualification (IQ) Operational Qualification (OQ



# Premium



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Qualification Plan (QP)

Pharma Risk Assessment (RA)

Pharma Factory Acceptance Test (FAT)

Site Acceptance Test (SAT)

Installation Qualification (IQ)

Operational Qualification (OQ)

Qualification Plan (QP)

Pharma Risk Assessment (RA)

Functional Designs Specifications (FDS)

Hardware Designs Specifications (HDS)

Software Designs Specifications (SDS)

Design Qualification (DQ)

Pharma Factory Acceptance Test (FAT)

Site Acceptance Test (SAT)

Installation Qualification (IQ)

Operational Qualification (OQ)

# Qualification Plan (QP)

The purpose of the Qualification Plan (QP) is to provide and define the qualification activities that will be performed during project execution, the responsibilities that correspond to the staff involved and the procedures that must be carried out.

# The following information is detailed in the QP:

- Project qualification strategy
- Project gualification documentation structure
- List of qualification tests.
- Methodology (management of deviations and change controls)
- Responsibilities matrix

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## QUALIFICATION PLAN (QP)

PH-28 DX- Customer Nam

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### 8.- PROJECT ACTIVITIE

### 8.1.- Project Start-up

The preliminary examination of the project is the first activity to develop and allow the project start-

The contractual documents and the Customer requirements (URS) are examined to evaluate the feasibility of th project by performing a Fit&Gap analysis.

Once confirmed the project feasibility, a Kick-off meeting is scheduled to define the project team and to discuss the conceptual design, the preliminary configuration and features of the equipment as well as the crucial econo parameters for overall project evaluation and successive decisions taking

### 8.2.- Layout Design

The project design development starts with the definition of the machine basic configuration. The initial proje ions are represented in the layout technical drawing that is issued and forwarded to the Customer for approval.

### 8.3.- Design Documentation Plan

All the documents to be issued during the design phase will be available in the internal proj compliance with the Volpak Quality procedures.

Documents submitted to the Customer are managed by the Project Manager only. He provides the link betwee olpak and Customer regarding the documentation, and he will inform the stakeholders in case of information to add, to modify or to delete.

The project documentation, as presented in the following table, is supplied in according to the timing reported by the planned GANTT. These dates are subject to change with the agreement of the Custome

Document	Reference	Issued by	Reviewed by	Approved by
Qualification Plan (QP)	QP_C004.01793	Validation Specialist	Project Manager Mechanical Engineering Supervisor Quality Manager	Customer
Risk Assessment (RA)	RA_C004.01793	Validation Specialist	Mechanical Engineering Supervisor Quality Manager	Customer
Functional Design Specifications (FDS)	FD5_C004.01793	Engineering	Validation Specialist Mechanical Engineering Supervisor Quality Manager	Customer
Hardware Design Specifications (HDS)	HDS_C004.01793	Engineering	Validation Specialist Mechanical Engineering Supervisor Quality Manager	Customer
Software Design Specifications (SDS)	SDS_C004.01793	Engineering	Validation Specialist Mechanical Engineering Supervisor Quality Manager	Customer
Design Qualification (DQ)	DQ_C004.01793	Validation Specialist	Mechanical Engineering Supervisor Quality Manager	Customer

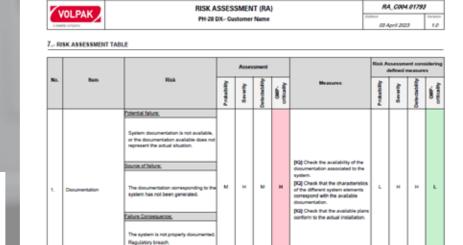
FK2 01.01 -Qualification Plan ed.01

# Pharma Risk Analysis (RA)

**Risk analysis methodology enables** assessment of equipment features from the perspective of GMP compliance. Assessment is carried out on all aspects that may affect product quality, patient safety and/or data integrity.

The FMEA (Failure Mode and Effects Analysis) method is used to classify the various parts of the machine, analyse potential failures and their consequences, assess the likelihood and detectability of the failure and the severity of the consequence. These three assessments reveal a risk rate which, if properly tabulated, can indicate the qualification actions required to mitigate the risk.

RA C004.01783 RISK ASSESSMENT (RA VOLPAK PH-28 DX- Customer Nam 01 April 2021 1.0 **RISK ASSESSMENT (RA)** Equipment: Horizontal Form Fill Seal Machine Type of equipment: PH-28 DX Secial Number #02204EE001 Customer: Customer Name Document Reference: RA C004.01793 Version: 1.0 Pages: 75 lease 1 of 75 FH2 02 01 - Risk Assess RA\_C004.01793 RISK ASSESSMENT (RA) VOLPAK PH-28 DX- Customer Nam 03 April 2023 6.3.- Risk Evalua Combining the probability of failure with severity and detectability in the following table, GMP- criticality is **GMP**- Criticality Probabilit Severity Low High High High Medium High Low High Medium Medium Low High Low Medium The value of GMP- Criticality obtained serves to focus resources in areas where the company is most GMP- Critical Description A specific test is neede A generic test is sufficient A qualification test is not Mitigation Analysis: This analysis evaluates the level of risk for each ring the application of the measures GMP- Criticality (After Qualification) Description The client must switch to mitigate this risk Andum (M The client must monitor th Low (L) The risk is under control DIC 102 M . Dick Assessment and I Page 10 of 75



can affect operation and quality, an

Detectability		
Medium	High	
High	Medium	
High	Medium	
Medium	Low	
High	Medium	
Medium	Low	
Low	Low	
Medium	Low	
Low	Low	
Low	Low	

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needed.
item considering its severity, probability d to mitigate the risk.
a different procedure or machine to
his risk periodically.
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# **Functional and Design Specifications (FDS)**

This document is prepared during the design phase and approved by the customer once the phase has been completed.

# The FDS are set forth in two documents:

- FS: Functional Specifications This document describes the functional design of the equipment.
- DS: Design Specifications This document describes the mechanical, electric and programming design of the equipment.



## FUNCTIONAL DESIGN SPECIFICATIONS (FDS)

Equipment:	Horizontal Form Fill Seal Machine
Type of equipment:	PH- 28 DX
Serial Number	#02204EF001
Customer:	Customer Name
Document Reference:	FDS_C004.01796
Version:	1.0
Pages:	23



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Page 1 of 23



### 6.- FUNCTIONAL SPECIFICATION

### 6.1.- General Description

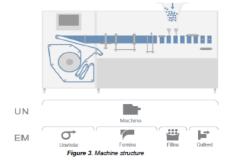
The horizontal form fill seal machine HFFS PH-28 DX is a machine 4-side seal flat pouches, operating from a single reel of flexible thermo-sealable material, forming the pouch, filling it with product according to the provided sing system, and sealing the pouch at the top. The equipment is constructed as a compact unit, reducing the area it occupies in the room

The machine is built applying advanced technologies, which have been developed through VOLPAK's experience using materials and components of high quality, that cannot interact with, react with, or absorb the pharmaceutical product being packed, and, neither can release any substances or particles that can affect this pharmaceutical product.

The machine frame and covers are made of carbon steel with special paint (steel-it) and the other parts and external mechanism of the filling station are made of nickel coated carbon steel and aluminium hard chromium coating

### 6.1.1. Machine structure

The machine structure can be divided in different modules or stations (see Figure 3



Machine Unite (UN):

- a. Film line: The front part of the machine where all the operations to form and fill the pouches are carried out
- b. Main shaft: At the rear part of the machine are the mechanisms that make the machine work, the
- main shaft
- It is designed to support reels with a maximum diameter of 600 mm and mechanically unrolled reel
- 3. Forming
- Area where the sachet is made, making the vertical seals and bottom seal
- 4. Filling
- Area through which the sachet passes. It is transported by the trolley mechanism, by the different stations top opening, dossing and upper sealing.

FK2 03.01 - Functional Design Specifications ed.01

# Hardware Design Specifications (HDS) & Software Design Specifications (SDS)

The HDS and SDS are the documents that detail the design of the equipment's computer and control system.

These documents serve to complement the FDS by including specific details of automation design, such as:

- Arquitecture
- User interface (HMI, SCADA, pushbuttons, printers)
- PLC
- Inputs and outputs
- Sensors and instruments
- Safety devices
- Power supply systems
- Communications (network)
- Operation, shut down and emergency modes
- Servomotor controls
- Alarms
- Access levels
- Critical parameters and configurable parameters (setpoints)
- Electronic records and Audit Trail



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SIGN SPECIFICATIONS (SDS)	SDS_C004.017
DX- Customer Name	Colore David 03 April 2023
CRIPTION	
reption	
Suction: Main screen of machine inform	mation. Status and state
ual: Main screen that provide access	to all manual actions.
t common functions for production	
rview of all sealers	
eral parameters or functions	
cription	
ch information tracking	
ity elements information (Doors and E	Sinnal
a contract of the second s	
mal assistance communications statu	a
h production parameters, status, and	control
FR part 11 options	
ion and devices related to material	unwinder zone
cription	
e/Barcode printer	
inder parameters (e.g., end of reel)	
I connection mark detection	
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interface is based on Omron	
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Page 8 of 22

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Page 1 of 22

# Design Qualification (DQ) Protocol

The purpose of DQ is to verify that the points described in the design documentation (FDS, SDS, HDS) comply with the requirements set out in the URS and/or offer.

DQ execution and conformity mark the starting point for equipment construction.



## DESIGN QUALIFICATION (DQ)

Equipment:	Horizontal Form Fill Seal Machi
Type of equipment:	PH-28 DX
Serial Number	#02204EF001
Customer:	Customer Name
Document Reference:	DQ_C004.01793
Version:	1.0
Pages:	24

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### DESIGN QUALIFICATION (DQ) PH-28 DX- Customer Name

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### 6.- METHODOLOGY

This protocol describes a set of tests that demonstrate that the system and its components have been correctly designed, according to the manufacturer's specifications and the requirements of the User Requirement

This document comprises both the Design Qualification protocol and report. The protocol must be fully authorit prior to commencing the report.

### 6.1.- Personnel

All persons responsible for performing tests will be identified in section 7. "Registry of the personnel involved in the qualification'

### 6.2.- Test contents

The DQ is carried out reviewing the design documentation and verifying the traceability of each user requirer with the adopted design solution

The instructions to fill in the tables of DQ test are shown below

Column	Instructions	
URS ID	In this column the ID of the requirement is indicated as described in the URS document.	
URS Description	In this column the description of the requirement is indicated as described in the URS document.	
Ref FDS/ Technical Documentation	In this column it is indicated the ID of the corresponding technical/FDS documentation.	
Acceptable Y/N	In this column it is reported whether the requirement has been satisfied or not: Enter "YES" if the requirement is met and the step completed successfully. Enter "NO" if the Requirement is not met and the step could not be completed successfully. In case of a "NO" entry occurred for a MUST requirement, provide details in the "Deviation List" (see section 6.4 Handling of Deviations. If the requirements were not fully met since they needed to be tested during FAT, SAT, IQ or OQ, an entry of "YES" may be made also if the step is not completely successfully. The details of the activity to be done in order to satisfy the Requirement will be provided in column "Note".	
Note	Each observation noted during the DQ must be reported in the relevant section "Notes. Any actions necessary to correctly address the observations must be recorded in the "Deviation List". If the requirements are not met, it is necessary to insert a justification and evaluate the management of any gaps in the system. In this column it is also reported a brief description of the activities should be done later in case of requirement not verifiable during DQ.	

To successfully complete the DO activities, the qualification personnel must execute the tests required in this protocol and report the results in the dedicated section of the document. The conclusion of the test will be marked with an "X" following the criteria shown below:

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Page 1 of 24

# Pharma Factory Acceptance **Test (FAT) Protocol**

The purpose of the Pharma FAT protocol is to verify that the machine has been installed and is operating according to the customer's requirements (URS) and/or the design parameters set out in the offer or order. These verifications are carried out in the Volpak plant with the aim of accepting the equipment before it is delivered to the customer's facilities. The documentation includes an explanatory summary of each significant part of the machine and highlighting its function within the machine as a whole.

# The following tests are included in the FAT protocol:

- Document verification (Draft version)
- Conformity of the plans (Draft version)
- Conformity of the components
- Verification of the parts in contact with the product (the material certificates of the components that are in contact with the product are delivered with the machine)
- Verification of calibration process instruments (the calibration certificates of the temperature probes supplied with the machine are delivered with the machine)
- Verification of Installation and Software Version of the HMI and PLC

- I/O Verification
- Start-up, shut down and communication failures
- Screens verification
- Access levels test (if required)
- Verification of safety systems
- Alarms and interlocks
- Parameter management
- Audit trail verification (if required)
- Data backup and retrieval (if required)
- Rejections
- Operation test for each format
- Dosing capacity/precision
- Verification of report generation (if required)



DESIGN QUALIFICATION (DQ) PH-78 DX - Customer I

## FACTORY ACCEPTANCE TEST (FAT)

Equipment:	Horizontal Form Fill Seal Machine
Type of equipment:	PH-28 DX
Serial Number	#02204EF001
Customer:	Customer Name
Document Reference:	FAT_C004.01793
Version:	1.0
Pages:	212



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FACTORY ACC PH-28 D

3 TEST FAT - 01: DOCUMENTATION VERIFICATION					
Objective					
Verify the availability of descriptive documentation, specifications, and manuals of the supplied and installed machine, and its components.					
Methodology					
All the descriptive documents, specifications, installation and configuration manuals and operation manuals, for the hardware, software and con of the system are listed in Table 1.	nmunication components				
For each of the documents, enter the title, reference, version, and location.					
Verify the documentation is:					
<ul> <li>Clear and concise: It complies with documentation standards and it is easy to understand.</li> </ul>					
Complete: non-ambiguous and well-defined information.					
<ul> <li>Suitable for the purpose: should ensure that the system has the required attributes of reliability, maintainability, usefulnese, and minimisation of risks.</li> </ul>					
Current: the documentation exists in its latest version, and it is verified that the appropriate change control is applied.					
Acceptance criteria					
1- The documentation is available, clear, and consistent. 2. The documentation is complete.					

- 3. The documentation is clearly identified and version
- The documentation is correctly archived
- FK2 09.01 Factory Accelance Test ed.01

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Table 1. Material Certificates (see Annex F of the User Manual)							
R.	Part No.	Components	Design material	Observed material		Result	Checked by
"	Parciso.	Components	Design material	Material	Certificate No.	Result	(initials&date)
Ind	firect contact						
1,	0FA00707000040010	COUNTERWEIGHT	AISI 316 L				
2.	0FA00107000090060	RUBBER STAMP	SILICONE 605hA			O P O F O NA	
з.	0FA00507000150010	COMPENSATING ROLLER AXIS	AISI 316 L			O P O F O NA	
4.	0FA00707000040020	TAMPER SUPPORT SHAFT	AISI 316 L				
5.	0FA00107000090030	BUSHING	SILICONE 605hA			DP DF DNA	

EPTANCE TEST (FAT)	FAT_C004.01793		
- Customer Name	Edition 03 April 2023	Varaion 1.0	

Page 16 of 21

# SAT (Site Acceptance Test) Protocol

The purpose of the SAT protocol is to provide documentary evidence that the equipment has been delivered, installed and operates in compliance with its design specifications.

# The following tests are included in the SAT protocol:

- Document verification (Final version)
- Operation test for each format
- Dosing capacity/precision

# Each FAT and SAT test must include the following:

- Purpose of the test;
- Methodology for test performance;
- Acceptance criteria: minimum parameter values required to accept the test;
- Comments section to describe failures deviations or enter observations;
- Checkbox for the signature of the person responsible for performing the test; •
- Approval checkbox to be signed when the test is accepted.

When the verifications performed during the Pharma FAT and SAT tests are satisfactory, properly documented and not affected by machine transport or any changes made to the machine, they can be referenced in subsequent qualification stages without having to repeat the tests.



SITE ACCEPTANCE TEST ( PH-28 DX\_ Cu

## SITE ACCEPTANCE TEST (FAT)

Equipment:	Horizontal Form Fill Seal Mac
Type of equipment:	PH-28 DX
Serial Number	#02204EF001
Customer:	Customer Name
Document Reference:	SAT_C004.01793
Version:	1.0
Pages:	212





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PH-28 DX- Customer Name	

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	ant	ACCEPTANCE TEST F		
Conclusions				
RESULT:	PASS		☐ FAIL	
	_	Company:		Date:
	Position:	Company:	FAIL Stgnature:	Date:
erformed by:	_	Company:	Signature:	Dute;
erformed by:	_	Company:		Date:
RESULT: Verformed by: Inviewed by:	Position:		Signature:	
erformed by:	Position:		Signature:	
erformed by:	Position:		Signature:	
erformed by: leviewed by:	Position:	Company:	Signature:	
erformed by:	Position: Position:		Signature: Signature:	Date:
erformed by: eviewed by:	Position: Position:	Company:	Signature: Signature:	Date:

Page 1 of 212

FK2 10.01 - Site Accptance Test ed.6

Page 200 of 21

# IQ (Installation Qualification) Protocol

The purpose of the IQ protocol is to verify that the machine has been installed according to the customer's requirements (URS) and/or the design parameters set out in the offer or order. These checks are carried out without starting up the machine. The documentation includes an explanatory summary of each significant part of the machine and highlighting its function within the machine as a whole.

# The following tests are included in the IQ protocol:

- Preliminary verification (FAT Approval)
- Document verification (Final version)
- Conformity of the plans (Final version)
- Conformity of the components
- Verification of the parts in contact with the product (the material certificates of the components that are in contact with the product are delivered with the machine)
- Verification of calibration process instruments (the calibration certificates of the temperature probes supplied with the machine are delivered with the machine)
- Verification of Installation and Software Version of the HMI and PLC
- I/O Verification
- Verification of services (equipment supplies and connections)



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## INSTALLATION QUALIFICATION (IQ)

Equipment:	Horizontal Form Fill Seal Mach
Type of equipment:	PH-28 DX
Serial Number	#02204EF001
Customer:	Customer Name
Document Reference:	IQ_C004.01793
Version:	1.0
Pages:	180





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TES	T IQ - 06: HARDWARE AND SO	FTWARE VERIFICATION		
Tabl	le 3. HMI			
	lt.	Expected Results	Result	Checked by (initials&date
	Identification	19A80		
	Brand / Manufacturer	IRONTECH		
	Model	IRTWPC156KCW7VA-2CDA		
Hardware	Logical Name	USUNXOSACHETF01		
	RAM	8GB		
	HDD	Partition C: 60 GB Partition D: 60 GB		
	Processor	Intel® Tiger Lake i5-1135G7		

FK2 07 01 - Installation Qualification ed 01

Page 54 of 212

# OQ (Operational Qualification) Protocol

The purpose of this protocol is to verify that the machine operates according to the customer's requirements (URS) and/or the design parameters set out in the offer or order. The documentation includes an explanatory summary of each significant part of the machine and highlighting its function within the machine as a whole.

# The following tests are included in the OQ protocol:

- Preliminary verification
- Start-up, shut down and communication failures Data backup and retrieval (if required)
- Screens verification
- Access levels test (if required)
- Verification of Safety Systems
- Alarms and interlocks
- Parameter Management

# Each IQ and OQ test must include the following:

- Purpose of the test;
- Methodology for test performance;
- Acceptance criteria: minimum parameter values required to accept the test;
- Comments section to describe failures deviations or enter observations;
- Checkbox for the signature of the person responsible for performing the test;
- Approval checkbox to be signed when the test is accepted.

- Audit Trail Verification (if required)
- Rejections
- Operation test for each format
- Dosing capacity/precision
- Verification of report generation (if required)



	PERATIONAL QUALIFICATION (OQ) PH-28 DX- Customer Name			
Equipment:	Horizontal Form Fill Seal Machine	1		
Type of equipment:	PH-28 DX	1		
Serial Number	#02204EF001			
Customer:	Customer Name			
Document Reference:	OQ_C004.01793			
Version:	1.0			
Pages:	200	[		 
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	fication ed. 01		Pi	Damaged poud	(sealing not affected)				O NA
	2			Minor (Mn): • Not very signific pouch	ant marks or scratches on the surfa	ce of the 2.5	≤ 10 units.	Critical : uts	DF/ DF/ DNA
		OP	ERATIONAL QUALIFICATION (OQ)		00_0004.01793				
VOLPAK	2		PH-28 DX- Customer Name	Editor 03 A	vil 2023 1.0				Page
TEST 0Q - 18:	GXP REPORT	GENERATION							
Comments:									
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	ESULTS	FAIL							
TEST FINAL R									
	PASS	NAL PASS	prature:	Dute:					
Result	PASS	NAL PASS	prature:	Date:					
Result Performed by:	PASS	NAL PASS							

TEST OQ - 16: OPERATIONAL TEST						
Table 4. Defective units (Format: F-1)						
1.	Number of samples <sup>9</sup> : 200 pouches					
	Type of Defect	AQL	Max. Nº of defective units	Verifications	Result	Checked by (initials&date)
	Critical (C): May cause a lack of sterility, container integrity or cause harm to patient: Broken unit Pouches not dosed Leakages Data not printed	0.1	0 units	Critical : uts	OP/ OF/ ONA	
2.	Major (M): Defects that do not affect patient health or product functionality: Damaged pouch (sealing not affected) Unclear print Damaged pouch (sealing not affected)	1.5	s 7 units.	Critical : uts	DP/ DF/ DNA	
	Minor (Mn): • Not very significant marks or scratches on the surface of the pouch	2.5	≤ 10 units.	Critical :uts	OP/ DF/ DNA	



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