

# Pre-Designed Solutions (PDS) Provide Simpler, Safer, Faster & Cheaper Supply Chains for SUS

The growing adoption of SUS in all process steps & applications of commercial production drives the need for reducing complexity, enhancing quality, improving assurance of supply and reducing leadtimes.











# The Accelerated Adoption of SU in Commercial Production Calls for Business Simplification

SUS adopted in clinicals with massive customization & proliferation of SKU's\*

- > 5.000 components from 100's of suppliers
- > 20.000 SKU's created in the last 20 years
- > 70% of SKU's are specific to one customer

SUS growing in all Process & Application Clusters (PACs) of commercial production

Need to reduce complexity at suppliers & end-users to provide

- More robust quality
- Stronger assurance of supply and
- More cost effective supply chain

"Commercial single-use-based manufacturing, consumes much more equipment than at pre-commercial scales"

BioPlan Associates, Inc.

SUS	CAGR
Storage & shipping	>15%
Mixing	>20%
Freezing	>30%
Tubes & connectors	>10%
Sampling	>20%
Filling (DDS)	>20%

<sup>\*</sup> Stock Keeping Units

# PDS Established by 60 Experts Reviewing 4.000 Designs from 20 Years of Experience in Designing SUS

 > 1.200 PDS created to meet all functional and quality requirements of all PACs

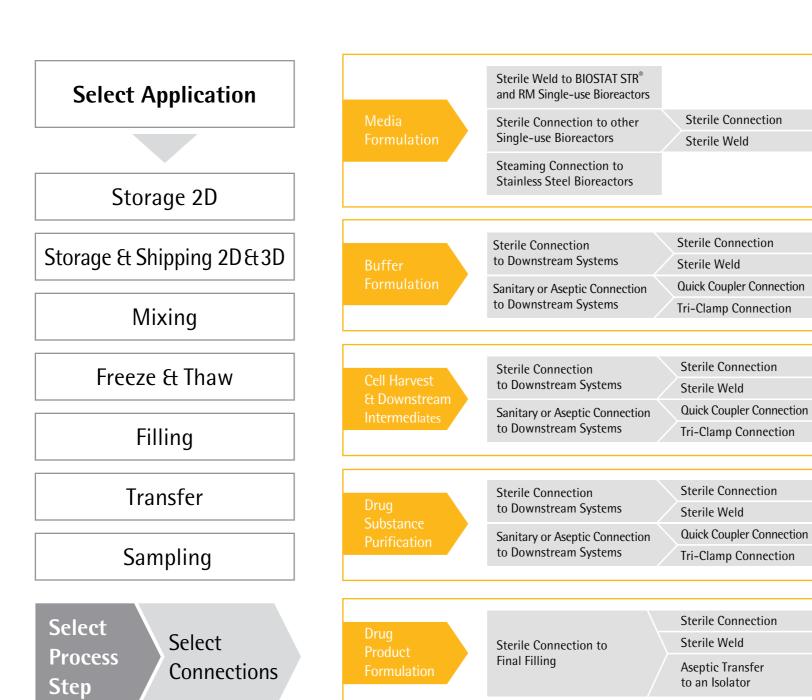
PDS performance & AOS based on the complete control of our process from the resins to the final product

All outsourced components are

- Covered by quality agreement
  - consistent quality
- Secured by long term supply contracts
  - ► change control & business continuity
- Available off-the-shelf
  - **best delivery reliability**

PDS Bags & Components	USP <87> or USP<88> Class VI	Bioburden Endotoxin Particles	TSE-BSE EMA/ 410/01	Biphenol A free REACH	Noti- fication time
Flexsafe <sup>®</sup> , Flexboy <sup>®</sup> &t Celsius <sup>®</sup> bags	Yes	Yes	Yes	Conform	48 months
Flexsafe® Pro Mixer	Yes	Yes	Yes	Conform	24 months
TuFlux® Transfer Sets	Yes	Yes	Yes	Conform	24 months
TuFlux <sup>®</sup> Tubes	Yes	Yes	Yes	Conform	24 months
Opta <sup>®</sup> connectors	Yes	Yes	Yes	Conform	24 months
Sartopore <sup>®</sup> filters	Yes	Yes	Yes	Conform	24 months
Fittings	Yes	Yes	Yes	Conform	24 months
Connectors	Yes	Yes	Yes	Conform	24 months

# Digital Finder Help You Select the Right PDS For Your Process Steps & Applications in 3 Clics



# **Standard Components**

Off-the-shelves
24 months change
notification

# **Standard PDS**

Best Quality
Delivery performance
AoS & Price
Optimized inventory

# PDS Provide Best Quality, Change Control, Business Continuity, Delivery Performance & Costs

PDS simplify your process design & provide best quality

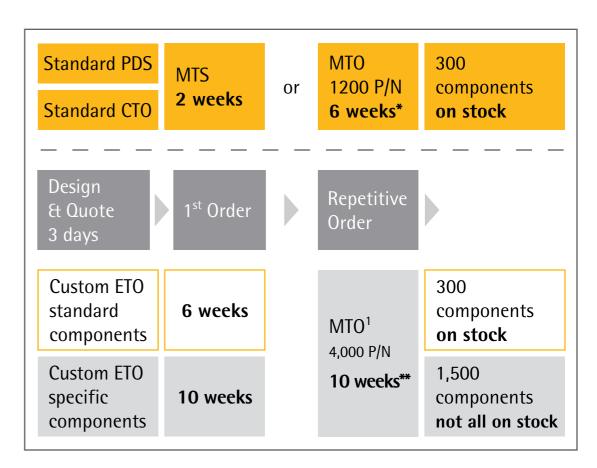
- Digital finder help select a PDS in < 5 min
- > 1.200 PDS qualified & QC tested for your PAC

PDS provide best change control & business continuity

- > 48 month change notification for bags
- > 24 month change notification for components

PDS reduce complexity, costs & leadtimes

- Reduce proliferation of your SKU's
- Optimize your inventory and costs
- Less P | N's & components on stock for best leadtimes



<sup>\*</sup> currently 8 weeks | \*\* currently 12 weeks

# PDS Offer Safer, Faster, Simpler & More Cost Effective Supply Chain for SUS

For you to fully benefit of the advantages of our SUS, we provide PDS **tailored**, **proven & quality controlled** for each of your PACs

With quality & supply contracts in place, we guaranty you the best level of quality, change control & business continuity

Using our PDS help you speed up your process design and reduce your number of SKUs, your inventory management complexity and your costs

PDS finally offer **best lead times** with **2 weeks for MTS** and **6 weeks for MTO** 

Standard Vs Custom	AOS	PAC based QC	Lead time	Com- plexity & costs	Vali- dation data
PDS	•	•	2-6 weeks	•	•
СТО	•	•	6 weeks		
CUSTOM Standard	•	•	6 – 10 weeks	•	•
CUSTOM Specific	•	•	10 weeks	•	•



See attached files

Digital-Tool\_Celsius\_SP-1525-e\_EXT
Digital-Tool\_Flexboy\_2D-Bags\_SP-1524-e\_EXT
Digital-Tool\_Flexsafe\_SP-1517-e\_EXT
Pro Mixer customer presentation
Digital-Tool\_PDS\_SP-1523-e\_EXT
Digital-Tool\_TuFlux\_SP-1528-e\_EXT
Digital-Tool\_TAKEONE\_SP-1529-e\_EXT
Global\_PDS
Position-Statement\_PDS

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