

## BD Medical - Pharmaceutical Systems Your business partner with over 60 years of experience in Drug Delivery Systems

## Supply that can lean on dual sourcing

- 3 billion+ plunger stoppers capacity with dual sourcing capabilities¹
- 2 Manufacturing sites : EU and US

## Known and trusted plunger stoppers

- #1 supplier of ready to use plunger stoppers for prefillable syringes<sup>2</sup>
- 18 billion+ PFS\* plunger stoppers sold since 2015 to over 600 customers<sup>3</sup>
- >99.8%
   "Batch within specifications -Quality confirmed"<sup>4</sup>

# Elastomer, drug device combination product expertise

- 100+ BD proprietary plunger stopper molds designed, following BD barrel specifications
- Material Science experts
   Analytical studies (predictive tools, Extractables & Leachables studies, subvisible particle analysis),
- 30+ regulatory experts
   supporting drug-device combination product registration in the US, EU and Asia



BD tools for drug combination product developers

# BD SCF<sup>TM</sup> Plunger Stoppers



#### Select formulations<sup>†</sup>

		Uncoated				Coated	
		FM257	FM457	4023/50	4432/50	BD SCF™ FluroTec®*** 4023/50	BD SCF™ Premium Coat®** 6720 GC
	1 mlL						
	BSCF	✓		✓	✓	✓	√ + BD Visioguard™
	NSCF	✓		✓	✓	✓	
	TSCF			+ BD Visioguard™	✓	+ BD Visioguard™	+ BD Visioguard™
	1-3 mL						
	BSCF	<b>✓</b>	✓	✓	✓	✓	NFHU available FHU (March 2024)
	NSCF	✓	✓	✓	✓	✓	
	TSCF	+ BD Visioguard™	+ BD Visioguard™	<b>✓</b>	✓	<b>✓</b>	NFHU available FHU (March 2024)

### Key benefitsAccess to α v

- Access to a wide range of formulations for drug compatibility:<sup>†</sup>
  - 6+ formulations
  - Including 2 coated formulations
- Multi-sourcing network for business continuity for selected product:
  - Footprint in Europe and US
  - Leverage of manufacturing dual sourcing options when available
- Large choice of packaging:
  - BSCF (Bagged-SCF)
  - NSCF (Nested-SCF)/F-SCF (Flexible-SCF), compatible with VanRx filling equipment (in development)
  - TSCF (Transfer door-SCF)/O-TSCF Outside opening TSCF (in development)
- Access to stopper inspection technology:
  - BD Visioguard<sup>™</sup> Vision Inspected stoppers features 100% automated visual inspection<sup>5</sup> to identify defects and support operational excellence

#### **Packaging**

Nested SCF™



Bagged SCF™



Transfer door-SCF™



#### Availability

- Fast access to quantities sized for development needs, via BD PartnerPath™ Program:
  - 1-3 ml FM457 TSCF SKU 47433210 (MOQ 15000)
  - 1-3 ml FM457 BSCF SKU 47375710 (MOQ 6000)
  - 1-3 ml 4023FLUR TSCF SKU 47190510 (MOQ 15000)
  - 1-3 ml 4023 BSCF SKU 47285710 (MOQ 5624)
  - 1 mlL 4023FLUR TSCF SKU 47431310 (MOQ 26000)
  - 1 mlL 4023FLUR BSCF SKU 47375910 (MOQ 9000)
  - 1 mll PREMIUMCOAT VISIO TSCF SKU 47607910 (MOQ 2600)
  - 1mlL PREMIUMCOAT VISIO BSCF SKU 47616610 (MOQ 7200)
- Samples available on demand
- Commercial availability to be evaluated against requirements

- † Non exhaustive list
- \* SCF: Sterile Clean and ready to Fill
- \* PremiumCoat is a registered trademark of Aptar Pharma
- \*\*\* FluroTec is a registered trademark of West Pharmaceutical Services, Inc

MOQ: Minimum Order Quantity



#### References

- 1. BDM-PS supply chain demand (BDMPS Supply Chain demand file\_Desy 2018-2023), August 2021
- 2. BDM-PS estimate based on 2020 market data
- 3. BDM-PS sales analysis [internal analysis]. Pont-de-Claix, FR: Becton, Dickinson and Company; 2020
- 4. BDM-PS Quality metrics for plunger stoppers; sept. 2021
- 5. BDM-PS internal document SD20203388

### BD Medical

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