

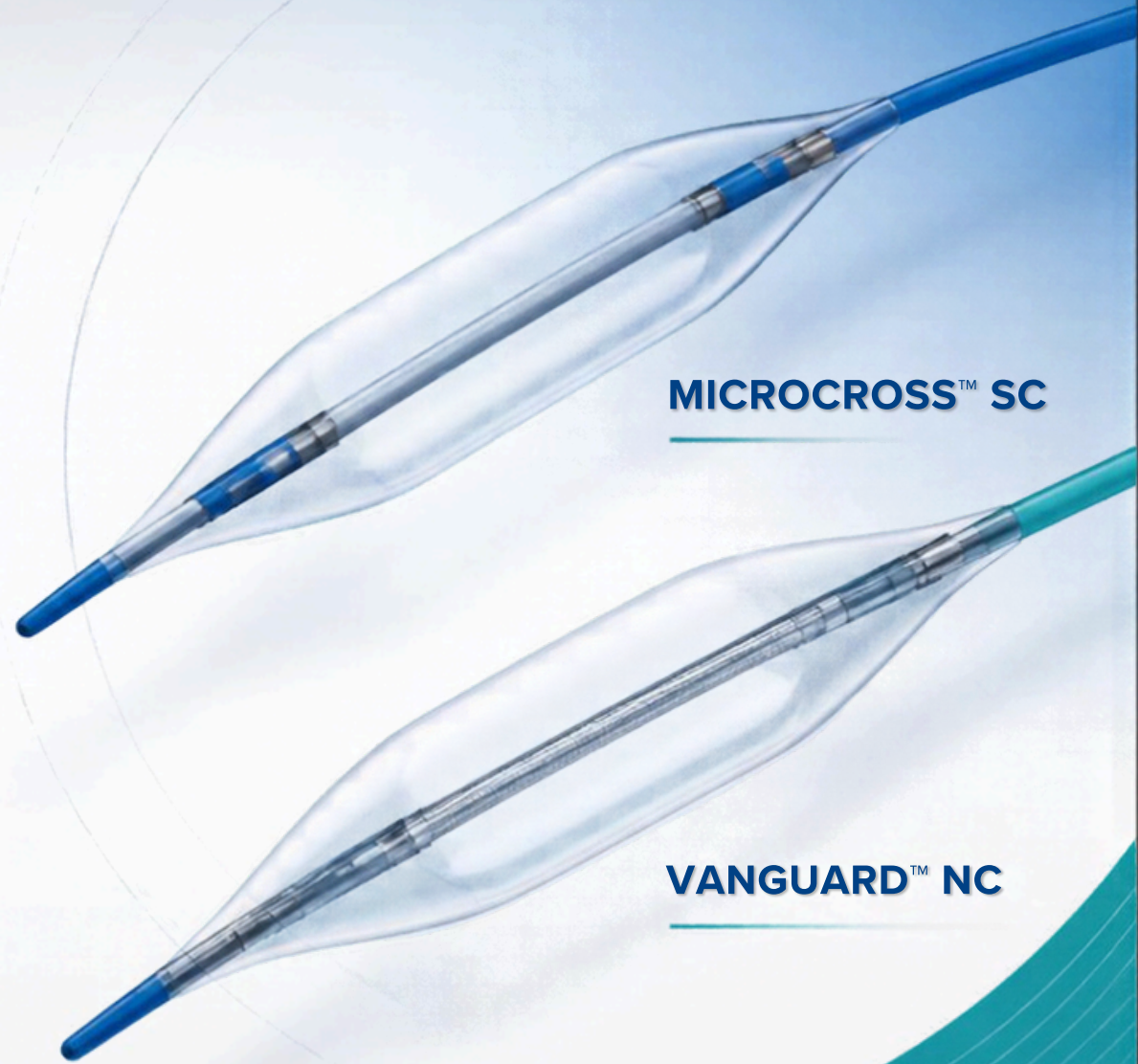


## HOF SCIENTIFIC LTD

Legal Manufacturer & EU Authorized Representative;  
Designed and Manufactured by HOF Scientific, Ltd

# PTCA BALLOON CATHETERS

Semi-compliant and non-compliant  
solutions for precise coronary intervention



## PRODUCT PLATFORM OVERVIEW



**HOF SCIENTIFIC LTD**

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# MicroCross™ SC Sterile PTCA Balloon Catheter

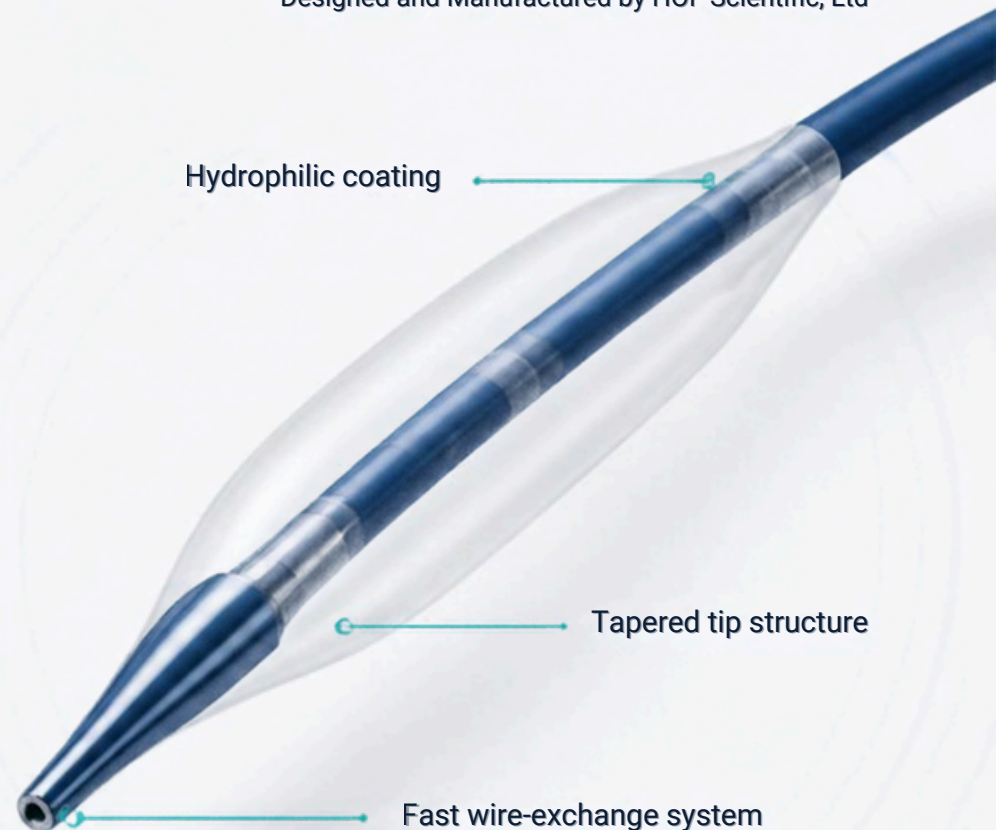
# VanGuard™ NC Sterile PTCA Balloon Catheter

- ✓ Designed for percutaneous transluminal coronary angioplasty (PTCA) in coronary artery stenosis or occlusion.
- ✓ Three-layer inner tube construction supports pushability and distal lesion access.
- ✓ Smooth tapered tip helps navigation through tortuous vascular anatomy.
- ✓ Fast wire-exchange section: 25 cm; compatible with 0.014 in guide wire.
- ✓ Advanced laser welding supports a seamless connection between the head and tube.

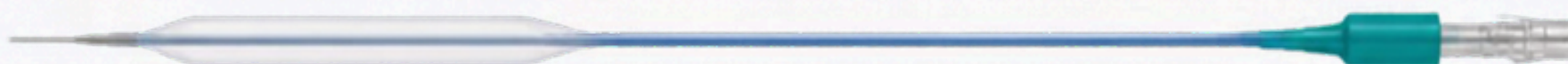


**CLINICAL  
APPLICATION**

Intended for use in percutaneous transluminal coronary angioplasty (PTCA) of native coronary artery stenosis or occlusion.



# MICROCROSS™ SC | PRODUCT PARAMETERS



**BALLOON DIAMETER**  
1.00–4.00 mm

**BALLOON LENGTH**  
5–30 mm

**GUIDE WIRE COMPATIBILITY**  
0.014 in

**CATHETER LENGTHS**  
5, 8, 10, 12, 15, 17,  
20, 26, 30 cm

**DIAMETER OPTIONS**  
1.00, 1.25, 1.50, 1.75, 2.00,  
2.25, 2.50, 2.70, 3.00, 3.25,  
3.50, 4.00 mm

Pebax semi-compliance balloon material | BSL hydrophilic coating | tapered end | fast wire-exchange outlet | balloon filling interface

| PRODUCT CODE MATRIX | CATHETER LENGTH (cm)    |                         |                         |                         |                         |                         |                         |                         |                         |
|---------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
|                     | 5                       | 8                       | 10                      | 12                      | 15                      | 17                      | 20                      | 26                      | 30                      |
| 1.00                | <a href="#">PN10005</a> | <a href="#">PN10008</a> | <a href="#">PN10010</a> | <a href="#">PN10012</a> | <a href="#">PN10015</a> | <a href="#">PN10017</a> | <a href="#">PN10020</a> | <a href="#">PN10026</a> | <a href="#">PN10030</a> |
| 1.25                | <a href="#">PN12505</a> | <a href="#">PN12508</a> | <a href="#">PN12510</a> | <a href="#">PN12512</a> | <a href="#">PN12515</a> | <a href="#">PN12517</a> | <a href="#">PN12520</a> | <a href="#">PN12526</a> | <a href="#">PN12530</a> |
| 1.50                | <a href="#">PN15005</a> | <a href="#">PN15008</a> | <a href="#">PN15010</a> | <a href="#">PN15012</a> | <a href="#">PN15015</a> | <a href="#">PN15017</a> | <a href="#">PN15020</a> | <a href="#">PN15026</a> | <a href="#">PN15030</a> |
| 1.75                | <a href="#">PN17505</a> | <a href="#">PN17508</a> | <a href="#">PN17510</a> | <a href="#">PN17512</a> | <a href="#">PN17515</a> | <a href="#">PN17517</a> | <a href="#">PN17520</a> | <a href="#">PN17526</a> | <a href="#">PN17530</a> |
| 2.00                | <a href="#">PN20005</a> | <a href="#">PN20008</a> | <a href="#">PN20010</a> | <a href="#">PN20012</a> | <a href="#">PN20015</a> | <a href="#">PN20017</a> | <a href="#">PN20020</a> | <a href="#">PN20026</a> | <a href="#">PN20030</a> |
| 2.25                | <a href="#">PN22505</a> | <a href="#">PN22508</a> | <a href="#">PN22510</a> | <a href="#">PN22512</a> | <a href="#">PN22515</a> | <a href="#">PN22517</a> | <a href="#">PN22520</a> | <a href="#">PN22526</a> | <a href="#">PN22530</a> |
| 2.50                | <a href="#">PN25005</a> | <a href="#">PN25008</a> | <a href="#">PN25010</a> | <a href="#">PN25012</a> | <a href="#">PN25015</a> | <a href="#">PN25017</a> | <a href="#">PN25020</a> | <a href="#">PN25026</a> | <a href="#">PN25030</a> |
| 2.70                | <a href="#">PN27005</a> | <a href="#">PN27008</a> | <a href="#">PN27010</a> | <a href="#">PN27012</a> | <a href="#">PN27015</a> | <a href="#">PN27017</a> | <a href="#">PN27020</a> | <a href="#">PN27026</a> | <a href="#">PN27030</a> |
| 3.00                | <a href="#">PN30005</a> | <a href="#">PN30008</a> | <a href="#">PN30010</a> | <a href="#">PN30012</a> | <a href="#">PN30015</a> | <a href="#">PN30017</a> | <a href="#">PN30020</a> | <a href="#">PN30026</a> | <a href="#">PN30030</a> |
| 3.25                | <a href="#">PN32505</a> | <a href="#">PN32508</a> | <a href="#">PN32510</a> | <a href="#">PN32512</a> | <a href="#">PN32515</a> | <a href="#">PN32517</a> | <a href="#">PN32520</a> | <a href="#">PN32526</a> | <a href="#">PN32530</a> |
| 3.50                | <a href="#">PN35005</a> | <a href="#">PN35008</a> | <a href="#">PN35010</a> | <a href="#">PN35012</a> | <a href="#">PN35015</a> | <a href="#">PN35017</a> | <a href="#">PN35020</a> | <a href="#">PN35026</a> | <a href="#">PN35030</a> |
| 4.00                | <a href="#">PN40005</a> | <a href="#">PN40008</a> | <a href="#">PN40010</a> | <a href="#">PN40012</a> | <a href="#">PN40015</a> | <a href="#">PN40017</a> | <a href="#">PN40020</a> | <a href="#">PN40026</a> | <a href="#">PN40030</a> |

| BALLOON COMPLIANCE | PRESSURE | NOMINAL PRESSURE | RATED BURST PRESSURE |
|--------------------|----------|------------------|----------------------|
|                    | ATM      | 6 atm            | 18 atm               |

Refer to the approved instructions for use for complete specifications and operating limits.

| Catheter length (cm) | Balloon diameter (mm) | Balloon length(mm) |         |         |         |         |         |         |         |         | Guide wire compatibility (Inch) |
|----------------------|-----------------------|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------------------------------|
|                      |                       | 5                  | 8       | 10      | 12      | 15      | 17      | 20      | 26      | 30      |                                 |
| 140                  | 1.00                  | PN10005            | PN10008 | PN10010 | PN10012 | PN10015 | PN10017 | PN10020 | PN10026 | PN10030 | 0.014                           |
|                      | 1.25                  | PN12505            | PN12508 | PN12510 | PN12512 | PN12515 | PN12517 | PN12520 | PN12526 | PN12530 |                                 |
|                      | 1.50                  | PN15005            | PN15008 | PN15010 | PN15012 | PN15015 | PN15017 | PN15020 | PN15026 | PN15030 |                                 |
|                      | 1.75                  | PN17505            | PN17508 | PN17510 | PN17512 | PN17515 | PN17517 | PN17520 | PN17526 | PN17530 |                                 |
|                      | 2.00                  | PN20005            | PN20008 | PN20010 | PN20012 | PN20015 | PN20017 | PN20020 | PN20026 | PN20030 |                                 |
|                      | 2.25                  | PN22505            | PN22508 | PN22510 | PN22512 | PN22515 | PN22517 | PN22520 | PN22526 | PN22530 |                                 |
|                      | 2.50                  | PN25005            | PN25008 | PN25010 | PN25012 | PN25015 | PN25017 | PN25020 | PN25026 | PN25030 |                                 |
|                      | 2.70                  | PN27505            | PN27508 | PN27510 | PN27512 | PN27515 | PN27517 | PN27520 | PN27526 | PN27530 |                                 |
|                      | 3.00                  | PN30005            | PN30008 | PN30010 | PN30012 | PN30015 | PN30017 | PN30020 | PN30026 | PN30030 |                                 |
|                      | 3.25                  | PN32505            | PN32508 | PN32510 | PN32512 | PN32515 | PN32517 | PN32520 | PN32526 | PN32530 |                                 |
|                      | 3.50                  | PN35005            | PN35008 | PN35010 | PN35012 | PN35015 | PN35017 | PN35020 | PN35026 | PN35030 |                                 |
|                      | 4.00                  | PN40005            | PN40008 | PN40010 | PN40012 | PN40015 | PN40017 | PN40020 | PN40026 | PN40030 |                                 |

Balloon diameter: 1.00mm-4.00mm

Balloon length: 5mm-30mm

## Table Balloon Compliance

| Pressure (atm) | Pressure (KPa) | Balloon diameter (unit: mm) |      |      |      |      |      |      |      |      |      |      |      |
|----------------|----------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
|                |                | 1.00                        | 1.25 | 1.50 | 1.75 | 2.00 | 2.25 | 2.50 | 2.75 | 3.00 | 3.25 | 3.50 | 4.00 |
| 2              | 202.7          | 0.91                        | 1.16 | 1.40 | 1.66 | 1.87 | 2.11 | 2.36 | 2.59 | 2.82 | 3.06 | 3.29 | 3.77 |
| 4              | 405.3          | 0.96                        | 1.20 | 1.45 | 1.70 | 1.94 | 2.18 | 2.43 | 2.67 | 2.91 | 3.16 | 3.39 | 3.89 |
| 6 (NP)         | 608.0          | 1.00                        | 1.25 | 1.50 | 1.75 | 2.00 | 2.25 | 2.50 | 2.75 | 3.00 | 3.25 | 3.50 | 4.00 |
| 8              | 810.6          | 1.04                        | 1.30 | 1.55 | 1.80 | 2.06 | 2.32 | 2.57 | 2.83 | 3.09 | 3.34 | 3.61 | 4.10 |
| 10             | 1013.3         | 1.09                        | 1.34 | 1.60 | 1.84 | 2.13 | 2.39 | 2.64 | 2.91 | 3.18 | 3.44 | 3.71 | 4.23 |
| 12             | 1215.9         | 1.13                        | 1.39 | 1.66 | 1.89 | 2.19 | 2.45 | 2.71 | 2.98 | 3.27 | 3.53 | 3.82 | 4.34 |
| 14 (RBP)       | 1418.6         | 1.17                        | 1.44 | 1.71 | 1.94 | 2.25 | 2.52 | 2.78 | 3.06 | 3.36 | 3.62 | 3.92 | 4.45 |
| 16             | 1621.2         | 1.22                        | 1.48 | 1.76 | 1.98 | 2.32 | 2.59 | 2.85 | 3.14 | 3.45 | 3.72 | 4.03 | 4.57 |
| 18             | 1823.9         | 1.26                        | 1.53 | 1.81 | 2.03 | 2.38 | 2.66 | 2.92 | 3.22 | 3.54 | 3.81 | 4.14 | 4.68 |





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## VanGuard™ NC | PRODUCT PARAMETERS



**BALLOON DIAMETER**  
2.00-5.00 MM



**BALLOON LENGTH**  
6-30 MM



**GUIDE WIRE COMPATIBILITY**  
0.014 IN



Nylon balloon material



BSL hydrophilic coating



tapered end



fast wire-exchange outlet



balloon filling interface



higher nominal pressure  
and rated burst pressure



| Catheter length (cm) | Balloon diameter (mm) | Balloon length (mm) |         |         |         |         |         |         |         |         |         | Guide wire compatibility (Inch) |
|----------------------|-----------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------------------------------|
|                      |                       | 6                   | 8       | 10      | 12      | 15      | 18      | 20      | 22      | 25      | 30      |                                 |
| 140                  | 2.00                  | PG20006             | PG20008 | PG20010 | PG20012 | PG20015 | PG20018 | PG20020 | PG20022 | PG20025 | PG20030 | 0.014                           |
|                      | 2.25                  | PG22506             | PG22508 | PG22510 | PG22512 | PG22515 | PG22518 | PG22520 | PG22522 | PG22525 | PG22530 |                                 |
|                      | 2.50                  | PG25006             | PG25008 | PG25010 | PG25012 | PG25015 | PG25018 | PG25020 | PG25022 | PG25025 | PG25030 |                                 |
|                      | 2.75                  | PG27506             | PG27508 | PG27510 | PG27512 | PG27515 | PG27518 | PG27520 | PG27522 | PG27525 | PG27530 |                                 |
|                      | 3.00                  | PG30006             | PG30008 | PG30010 | PG30012 | PG30015 | PG30018 | PG30020 | PG30022 | PG30025 | PG30030 |                                 |
|                      | 3.25                  | PG32506             | PG32508 | PG32510 | PG32512 | PG32515 | PG32518 | PG32520 | PG32522 | PG32525 | PG32530 |                                 |
|                      | 3.50                  | PG35006             | PG35008 | PG35010 | PG35012 | PG35015 | PG35018 | PG35020 | PG35022 | PG35025 | PG35030 |                                 |
|                      | 3.75                  | PG37506             | PG37508 | PG37510 | PG37512 | PG37515 | PG37518 | PG37520 | PG37522 | PG37525 | PG37530 |                                 |
|                      | 4.00                  | PG40006             | PG40008 | PG40010 | PG40012 | PG40015 | PG40018 | PG40020 | PG40022 | PG40025 | PG40030 |                                 |
|                      | 4.50                  | PG45006             | PG45008 | PG45010 | PG45012 | PG45015 | PG45018 | PG45020 | PG45022 | PG45025 | PG45030 |                                 |
|                      | 5.00                  | PG50006             | PG50008 | PG50010 | PG50012 | PG50015 | PG50018 | PG50020 | PG50022 | PG50025 | PG50030 |                                 |

Balloon diameter: 2.0mm-5.0mm

Balloon length: 6.0mm-30.0mm

Refer to the approved instructions for use for complete specifications and operating limits.



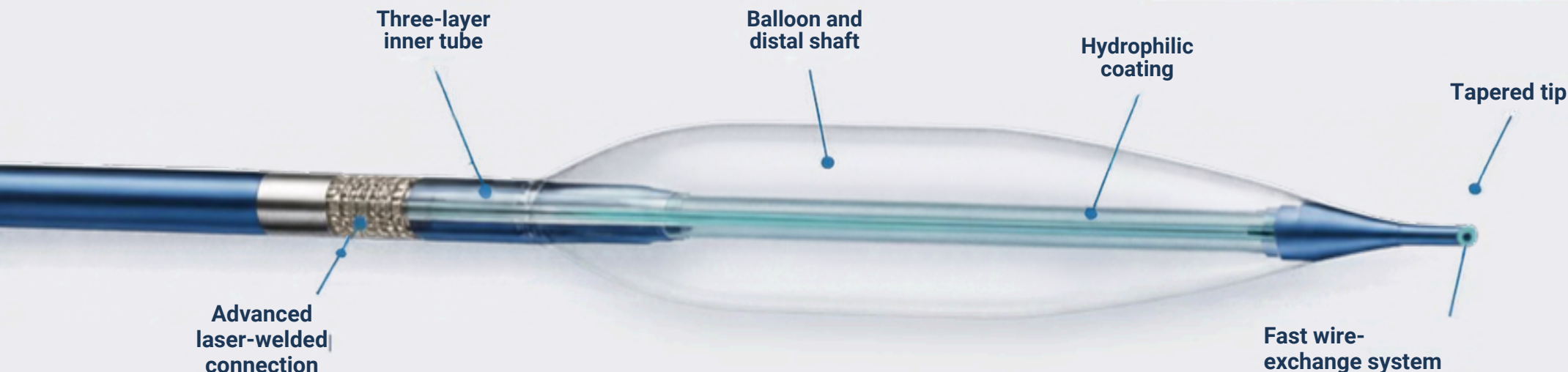
| Catheter length (cm) | Balloon diameter (mm) | Balloon length (mm) |         |         |         |         |         |         |         |         |         | Guide wire compatibility (Inch) |
|----------------------|-----------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------------------------------|
|                      |                       | 6                   | 8       | 10      | 12      | 15      | 18      | 20      | 22      | 25      | 30      |                                 |
| 140                  | 2.00                  | PG20006             | PG20008 | PG20010 | PG20012 | PG20015 | PG20018 | PG20020 | PG20022 | PG20025 | PG20030 | 0.014                           |
|                      | 2.25                  | PG22506             | PG22508 | PG22510 | PG22512 | PG22515 | PG22518 | PG22520 | PG22522 | PG22525 | PG22530 |                                 |
|                      | 2.50                  | PG25006             | PG25008 | PG25010 | PG25012 | PG25015 | PG25018 | PG25020 | PG25022 | PG25025 | PG25030 |                                 |
|                      | 2.75                  | PG27506             | PG27508 | PG27510 | PG27512 | PG27515 | PG27518 | PG27520 | PG27522 | PG27525 | PG27530 |                                 |
|                      | 3.00                  | PG30006             | PG30008 | PG30010 | PG30012 | PG30015 | PG30018 | PG30020 | PG30022 | PG30025 | PG30030 |                                 |
|                      | 3.25                  | PG32506             | PG32508 | PG32510 | PG32512 | PG32515 | PG32518 | PG32520 | PG32522 | PG32525 | PG32530 |                                 |
|                      | 3.50                  | PG35006             | PG35008 | PG35010 | PG35012 | PG35015 | PG35018 | PG35020 | PG35022 | PG35025 | PG35030 |                                 |
|                      | 3.75                  | PG37506             | PG37508 | PG37510 | PG37512 | PG37515 | PG37518 | PG37520 | PG37522 | PG37525 | PG37530 |                                 |
|                      | 4.00                  | PG40006             | PG40008 | PG40010 | PG40012 | PG40015 | PG40018 | PG40020 | PG40022 | PG40025 | PG40030 |                                 |
|                      | 4.50                  | PG45006             | PG45008 | PG45010 | PG45012 | PG45015 | PG45018 | PG45020 | PG45022 | PG45025 | PG45030 |                                 |
|                      | 5.00                  | PG50006             | PG50008 | PG50010 | PG50012 | PG50015 | PG50018 | PG50020 | PG50022 | PG50025 | PG50030 |                                 |

Balloon diameter: 2.0mm-5.0mm      Balloon length: 6.0mm-30.0mm

Table Balloon Compliance

| Pressure (atm) | Balloon diameter (mm) |      |      |      |      |      |      |      |      |      |      |
|----------------|-----------------------|------|------|------|------|------|------|------|------|------|------|
|                | 2.00                  | 2.25 | 2.50 | 2.75 | 3.00 | 3.25 | 3.50 | 3.75 | 4.00 | 4.50 | 5.00 |
| 12 (NP)        | 2.00                  | 2.25 | 2.50 | 2.75 | 3.00 | 3.25 | 3.50 | 3.75 | 4.00 | 4.50 | 5.00 |
| 14             | 2.02                  | 2.27 | 2.53 | 2.78 | 3.04 | 3.29 | 3.54 | 3.80 | 4.05 | 4.55 | 5.05 |
| 16             | 2.04                  | 2.30 | 2.56 | 2.81 | 3.07 | 3.33 | 3.58 | 3.84 | 4.10 | 4.60 | 5.10 |
| 18             | 2.06                  | 2.32 | 2.58 | 2.85 | 3.11 | 3.36 | 3.62 | 3.89 | 4.15 | 4.65 | 5.15 |
| 20             | 2.08                  | 2.35 | 2.61 | 2.88 | 3.14 | 3.40 | 3.66 | 3.93 | 4.20 | 4.70 | 5.20 |
| 22 (RBP)       | 2.10                  | 2.37 | 2.64 | 2.91 | 3.18 | 3.44 | 3.70 | 3.98 | 4.25 | 4.76 | 5.25 |





### DESIGN INTENT

The delivery system is designed to support controlled advancement, guide-wire compatibility and access to distal lesions.

### PRODUCT FAMILIES



**MicroCross™ SC**  
semi-compliant balloon,  
1.00–4.00 mm diameter range



**VanGuard™ NC**  
non-compliant balloon,  
2.00–5.00 mm diameter range



# PRECISION FOR CORONARY INTERVENTION

MicroCross™ SC and VanGuard™ NC sterile PTCA balloon catheters

## MANUFACTURER INFORMATION



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SCIENTIFIC

For professional use. Refer to the approved  
instructions for use for complete product information.