



**SACO**

SPECIALIST ANODISING

# Components Catalogue

ISSUE 32

A DIVISION OF THE LENDLOCK GROUP

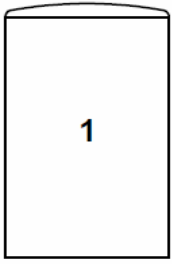
# COMPONENTS CATALOGUE

ISSUE 32

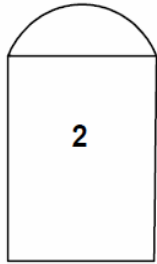
| PRODUCT GROUPS                                                                 | Pages    |
|--------------------------------------------------------------------------------|----------|
| 1. Triangulated caps for crimped pumps                                         | 2 to 4   |
| 2. Caps with plastic inserts for crimped pumps                                 | 5 to 11  |
| 3. Shrouds with internal ribs for pumps                                        | 12 to 16 |
| 4. Shrouds ribbed internal and with internal or external beads                 | 17 to 19 |
| 5. Shrouds ribbed internal with step at open end                               | 20 to 21 |
| 6. Shrouds external nibs without internal ribs                                 | 22       |
| 7. Triangulated caps for shrouds in product group 3                            | 23       |
| 8. Caps with plastic inserts for shrouds in product group 3                    | 24 to 31 |
| 9. Round caps with or without inserts to fit nibbed shrouds in product group 6 | 32       |
| 10. Caps with screw inserts                                                    | 33 to 39 |
| 11. Miscellaneous components                                                   | 40 to 42 |
| 13. Full service                                                               | 43       |
| 14. Pump manufacturer specifics                                                | 44 to 47 |
| 15. Specific function caps                                                     | 48       |
| 16. Caps with plastic inserts for shrouds in product groups 4 & 5              | 49       |
| 17. Jar Caps                                                                   | 5        |

**Product Group 1**  
**Triangulated to caps to fit crimped pumps**

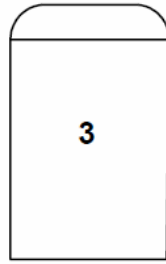
2



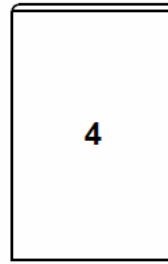
1. STANDARD CAP



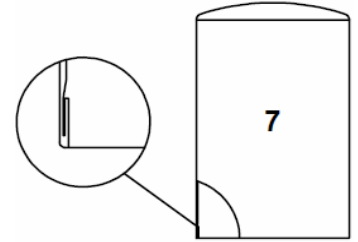
2. DOMED TOP CAP



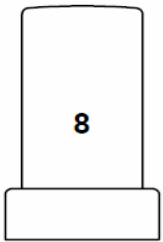
3. SOFT TOP CAP



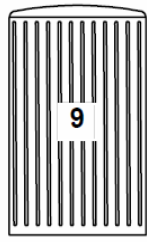
4. FLAT TOP CAP



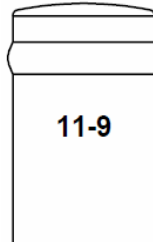
7. SED CAP  
(SAFE EDGE)



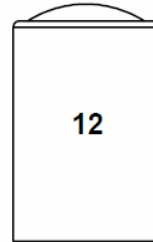
8. STEPPED CAP  
AT OPEN END



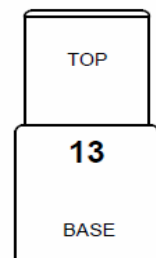
9. FLUTED OUTSIDE  
DIAMETER



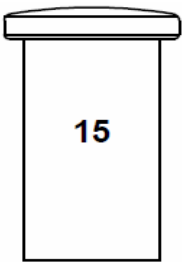
11-9. CAP WITH  
TOP RING



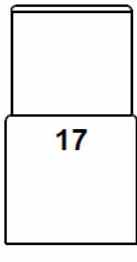
12. CAP WITH  
DOME FEATURE



13. 2 PART CAP



15. DISC TOP CAP



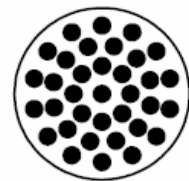
17. STEP  
DIAMETER CAP



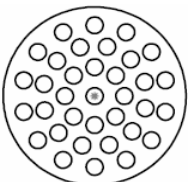
20. TOP FACE  
EMBOSSED WITH  
ONE RING



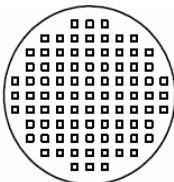
20-1. TOP FACE  
EMBOSSED WITH  
2 RINGS



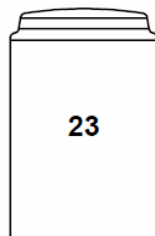
20-2. TOP FACE  
EMBOSSED WITH  
CIRCLES



21. TOP FACE  
DEBOSSED WITH  
CIRCLES



21-1. TOP FACE  
DEBOSSED WITH  
SQUARES



23. STEPPED DIAMETER  
TOP FACE CAP

## 3

[illegible]

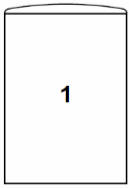
## 4

[illegible]

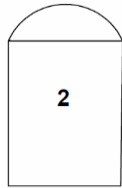
## Product Group 2

### Caps with plastic inserts for crimped pumps

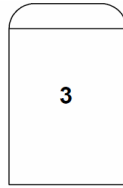
5



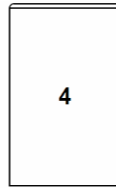
1. STANDARD CAP



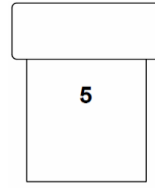
2. DOMED TOP CAP



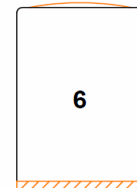
3. SOFT TOP CAP



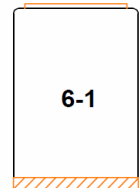
4. FLAT TOP CAP



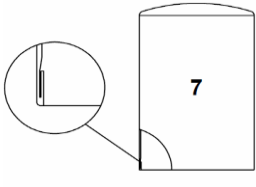
5. TOP HAT CAP



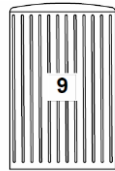
6. CAP WITH PLASTIC INSERT VISIBLE AT BOTH CLIP AND TOP FACE



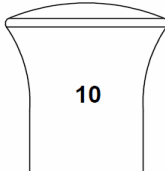
6-1. CAP WITH PLASTIC INSERT VISIBLE AT BOTH CLIP AND TOP FACE



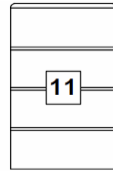
7. SED CAP (SAFE EDGE)



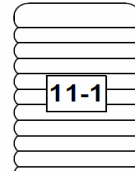
9. FLUTED OUTSIDE DIAMETER



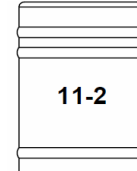
10. TULIP CAP



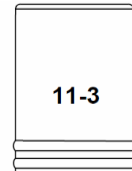
11. 3 GROOVE RING CAP



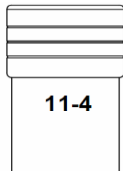
11-1. 11 RING CAP



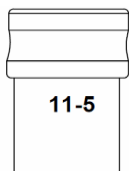
11-2. 3 RING CAP



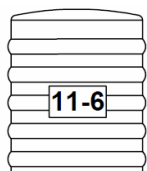
11-3. 2 EXT RING CAP



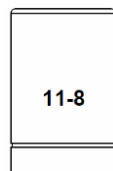
11-4. 3 GROOVE RING TOP HAT CAP



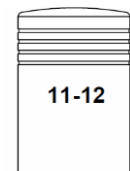
11-5. GROOVED TOP HAT CAP



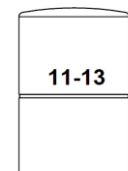
11-6. 5 RING CAP



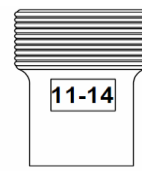
11-8. 1 GROOVE RING CAP



11-12. 4 GROOVE RING CAP



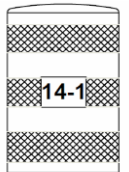
11-13. 1 GROOVE RING CAP



11-14. TOP HAT CAP WITH 10 RINGS



14. DIAGONAL KNURL CAP



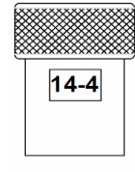
14-1. 3 BAND CROSS KNURL CAP



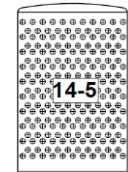
14-2. CROSS KNURLED CAP



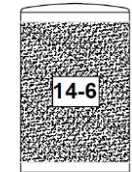
14-3. CROSS KNURLED INTERNALLY BEADED CAP



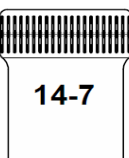
14-4. CROSS KNURLED TOP HAT CAP



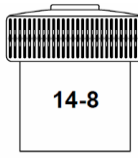
14-5. INDENT KNURL CAP



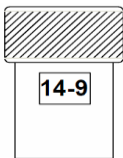
14-6. RANDOM KNURLED CAP



14-7. TOP HAT LINED CAP



14-8. TOP HAT FLUTED CAP WITH EMBOSSED FACE



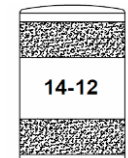
14-9. DIAGONAL KNURLED TOP HAT CAP



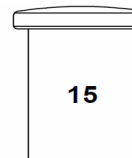
14-10. CAP WITH 2 CROSS KNURLED BANDS



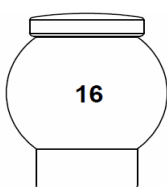
14-11. CAP WITH RANDOM KNURLED BAND



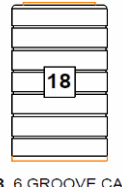
14-12. CAP WITH 2 RANDOM KNURLED BANDS



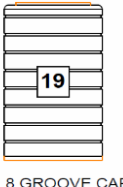
15. DISC TOP CAP



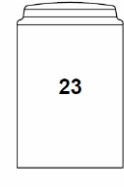
16. SPHERE CAP



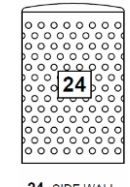
18. 6 GROOVE CAP WITH VISIBLE PLASTIC INSERT



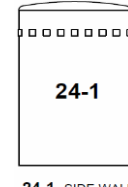
19. 8 GROOVE CAP WITH VISIBLE PLASTIC INSERT



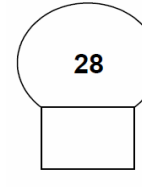
23. STEPPED DIAMETER TOP FACE CAP



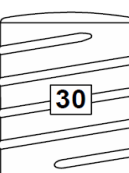
24. SIDE WALL EMBOSSED WITH CIRCLES



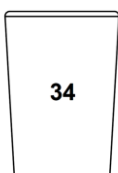
24-1. SIDE WALL EMBOSSED WITH SQUARES



28. BULGED CAP



30. SCREW CAP



34. TAPERED CAP

**Product Group 2**  
**Caps with plastic inserts for crimped pumps**

| Size        | Cap Code       | Insert      |           | Cap O/D   | Height | Style     | Comment                                                                                                                    |
|-------------|----------------|-------------|-----------|-----------|--------|-----------|----------------------------------------------------------------------------------------------------------------------------|
|             |                | FEA Fit     | G.P.I Fit |           |        |           |                                                                                                                            |
| <b>13mm</b> | 254-27         | C3157       |           | 26        | 27     | 1         |                                                                                                                            |
|             | 254-27TH       | C3157       |           | 26/30     | 27     | 5         |                                                                                                                            |
|             | 254-28THFLEBF  | C3157       |           | 26/31     | 28     | 14-8      |                                                                                                                            |
|             | 254-28DKTH     | C3157       |           | 26/30     | 28     | 14-9      |                                                                                                                            |
|             | 254-29THCK     | C3157       |           | 26/29     | 29     | 14-4      |                                                                                                                            |
|             | 254-30TH       | C3157       |           | 26/30     | 30     | 5         |                                                                                                                            |
|             | 254-314GR      | C3157       |           | 26        | 31     | 11-12     |                                                                                                                            |
|             | 254-31FTCK     | C3157       |           | 26        | 31     | 4 & 14-2  |                                                                                                                            |
|             | 254-31FT2CK    | C3157       |           | 26.2      | 31     | 4 & 14-10 |                                                                                                                            |
|             | 254-31FT3CK    | C3157       |           | 26        | 31     | 4 & 14-1  |                                                                                                                            |
|             | 254-31FTEBSWSQ | C3157       |           | 26        | 31     | 4 & 24-01 |                                                                                                                            |
|             | 254-31FTEBSWC  | C3157       |           | 26        | 31     | 4 & 24    |                                                                                                                            |
|             | 254-32         | C3157       |           | 26        | 32     | 1         |                                                                                                                            |
|             | 254-33         | C3157       |           | 26        | 33     | 1         |                                                                                                                            |
|             | 254-38         | C3157       |           | 26        | 38     | 1         |                                                                                                                            |
|             | 254-38DOM      | C3157       |           | 26        | 38     | 2         |                                                                                                                            |
|             | 254-4211R      | C3157       |           | 26        | 42     | 11-1      |                                                                                                                            |
| <b>15mm</b> | 18-32          | C2291/C3003 |           | 19.2      | 32     | 1         | C2291 Insert has closed top with an internal height of 27mm<br><br>C3003 Insert has a 13.7mm diameter hole in the top face |
|             | 18-32DOM       | C2291/C3003 |           | 19.2      | 32     | 2         |                                                                                                                            |
|             | 18-34          | C2291/C3003 |           | 19.2      | 34     | 1         |                                                                                                                            |
|             | 18-34DOM       | C2291/C3003 |           | 19.2      | 34     | 2         |                                                                                                                            |
|             | 18-35          | C2291/C3003 |           | 19.2      | 35     | 1         |                                                                                                                            |
|             | 18-35SED       | C2291/C3003 |           | 19.4      | 35     | 1 & 7     |                                                                                                                            |
|             | 18-3625FTSED   | C2291/C3003 | C3098     | 19.4      | 36.25  | 4 & 7     |                                                                                                                            |
|             | 18-37          | C2291/C3003 | C3098     | 19.2      | 37     | 1         |                                                                                                                            |
|             | 18-39          | C2291/C3003 | C3098     | 19.2      | 39     | 1         |                                                                                                                            |
|             | 18-55          | C2291/C3003 | C3098     | 19.2      | 55     | 1         |                                                                                                                            |
|             | 196-25         | C2982       |           | 20.4      | 25     | 1         |                                                                                                                            |
|             | 196-26BC       | C2982       |           | 20.4/26.7 | 26     | 28        |                                                                                                                            |
|             | 196-27         | C2982       |           | 20.4      | 27     | 1         |                                                                                                                            |
|             | 196-28         | C2982       |           | 20.4      | 28     | 1         |                                                                                                                            |
|             | 196-28FT1GR    | C2982       |           | 20.4      | 28     | 4 & 11-8  |                                                                                                                            |
|             | 196-30         | C2982       |           | 20.4      | 30     | 1         |                                                                                                                            |
|             | 196-31TH       | C2982       |           | 20.4/23.5 | 31     | 5         |                                                                                                                            |
|             | 196-32         | C2982       |           | 20.4      | 32     | 1         |                                                                                                                            |
|             | 196-32SED      | C2982       |           | 20.6      | 32     | 1 & 7     |                                                                                                                            |
|             | 196-32DOM      | C2982       |           | 20.4      | 32     | 2         |                                                                                                                            |
|             | 196-33BC       | C2982       |           | 20.4      | 33.3   | 28        |                                                                                                                            |
|             | 196-35         | C2982       |           | 20.4      | 35     | 1         |                                                                                                                            |
|             | 196-35SED      | C2982       |           | 20.6      | 35     | 1 & 7     |                                                                                                                            |
|             | 196-35FT3R     | C2982       |           | 20.4      | 35     | 11-2      |                                                                                                                            |
|             | 196-35DT       | C3213       |           | 20.5/25   | 34.5   | 15        |                                                                                                                            |
|             | 196-35DTSPHERE | C2982       |           | 20.4      | 37     | 16        |                                                                                                                            |
|             | 196-37         | C2982       |           | 20.4      | 37     | 1         |                                                                                                                            |
|             | 196-371GR      | C2982       |           | 20.4      | 37     | 11-13     |                                                                                                                            |
|             | 196-42         | C2982       |           | 20.4      | 42     | 1         |                                                                                                                            |
|             | 20-35          |             | C2736     | 22.1      | 35     | 1         |                                                                                                                            |
|             | 2402           | C2402       |           | 20        | 34     | 6         |                                                                                                                            |
|             | 2402RIB        | C2402       |           | 20        | 34     | 6 & 9     |                                                                                                                            |
|             | 2403           | C3013       |           | 24.8      | 30     | 6-1       |                                                                                                                            |
|             | 24036GR30      | C3013       |           | 24.8      | 30     | 18        |                                                                                                                            |
|             | 226-3411R      | C3069       |           | 24.1      | 34     | 11-1      |                                                                                                                            |
|             |                |             |           |           |        |           |                                                                                                                            |

**Product Group 2**  
**Caps with plastic inserts for crimped pumps**

| Size    | Cap Code    | Insert  |           | Cap O/D   | Height | Style    | Comment           |
|---------|-------------|---------|-----------|-----------|--------|----------|-------------------|
|         |             | FEA Fit | G.P.I Fit |           |        |          |                   |
| 15mm    | 24-28       | C2875   |           | 23.7      | 28     | 1        |                   |
|         | 24-28FT3GR  | C2875   |           | 23.7      | 28     | 11       |                   |
|         | 24-30       | C2875   |           | 23.7      | 30     | 1        |                   |
|         | 24-30EBSC   | C2875   |           | 23.9 REF  | 30     | 30       |                   |
|         | 24-30FT3GR  | C2875   |           | 23.7      | 30     | 11       |                   |
|         | 24-303GR    | C2875   |           | 23.7      | 30     | 1 & 11   |                   |
|         | 24-305TH    | C2875   |           | 23.7/26.8 | 30.5   | 5        |                   |
|         | 24-31       | C2875   |           | 23.7      | 31     | 1        |                   |
|         | 24-31THLN   | C2875   |           | 23.7/26.7 | 31     | 14-7     |                   |
|         | 24-32       | C2875   |           | 23.7      | 32     | 1        |                   |
|         | 24-32TU     | C2875   |           | 23.7/31   | 32     | 10       | Restricted finish |
|         | 24-32FT3GR  | C2875   |           | 23.7      | 32     | 11       |                   |
|         | 24-325      | C2875   |           | 23.7      | 32.5   | 1        |                   |
|         | 24-33       | C2875   |           | 23.7      | 33     | 1        |                   |
|         | 24-332R     | C2875   |           | 23.7      | 33     | 1 & 11-3 |                   |
|         | 24-334GR    | C2875   |           | 23.7      | 33     | 11-12    |                   |
|         | 24-33TH     | C2875   |           | 23.7/27.6 | 33     | 5        |                   |
|         | 24-33TH3GR  | C2875   |           | 23.7/26.8 | 33     | 11-4     |                   |
|         | 24-33THCK   | C2875   |           | 23.7/27.6 | 33     | 14-4     |                   |
|         | 24-34FTSED  | C2875   |           | 23.9      | 34     | 4 & 7    |                   |
|         | 24-35       | C2875   |           | 23.7      | 35     | 1        |                   |
|         | 24-35EBSC   | C2875   |           | 23.9 REF  | 35     | 30       |                   |
|         | 24-35DOM    | C2875   |           | 23.7      | 35     | 2        |                   |
|         | 24-35TH     | C2875   |           | 23.7/27.6 | 35     | 5        |                   |
|         | 24-35THGR   | C2875   |           | 23.7/26.8 | 35     | 11-5     |                   |
|         | 24-35TH3GR  | C2875   |           | 23.7/26.8 | 35     | 11-4     |                   |
|         | 24-36FT3R   | C2875   |           | 23.7/24.3 | 36     | 11-2     |                   |
|         | 24-37       | C2875   |           | 23.7      | 37     | 1        |                   |
|         | 24-37DOM    | C2875   |           | 23.7      | 37     | 2        |                   |
|         | 24-38       | C2875   |           | 23.7      | 38     | 1        |                   |
|         | 24-39       | C2875   |           | 23.7      | 39     | 1        |                   |
|         | 24-39FT3R   | C2875   |           | 23.7/24.3 | 39     | 11-2     |                   |
|         | 24-39FTSED  | C2875   |           | 23.9      | 39     | 4 & 7    |                   |
|         | 24-40       | C2875   |           | 23.7      | 40     | 1        |                   |
|         | 24-40DK     | C2875   |           | 23.7      | 40     | 1 & 14   |                   |
|         | 24-40DOM    | C2875   |           | 23.7      | 40     | 2        |                   |
|         | 24-40IK     | C2875   |           | 23.7      | 40     | 1 & 14-5 |                   |
|         | 24-40RK     | C2875   |           | 23.7      | 40     | 1 & 14-6 |                   |
|         | 24-403CK    | C2875   |           | 23.7      | 40     | 1 & 14-1 |                   |
|         | 24-404DKSED | C2875   |           | 23.9 REF  | 40.45  | 14 & 7   |                   |
|         | 24-42       | C2875   |           | 23.7      | 42     | 1        |                   |
|         | 24-422R     | C2875   |           | 23.7      | 42     | 1 & 11-3 |                   |
|         | 24-43       | C2875   |           | 23.7      | 43     | 1        |                   |
|         | 24-43DOM    | C2875   |           | 23.7      | 43     | 2        |                   |
|         | 24-46       | C2875   |           | 23.7      | 46     | 1        |                   |
|         | 24-489      | C2875   |           | 23.7      | 48.9   | 1        |                   |
|         | 24-49       | C2875   |           | 23.7      | 49     | 1        |                   |
| 24-52TU | C2875       |         | 23.7      | 52        | 10     |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           |        |          |                   |
|         |             |         |           |           | </     |          |                   |

**Product Group 2**  
**Caps with plastic inserts for crimped pumps**

| Size        | Cap Code       | Insert  |           | Cap O/D | Height | Style       | Comment |
|-------------|----------------|---------|-----------|---------|--------|-------------|---------|
|             |                | FEA Fit | G.P.I Fit |         |        |             |         |
| <b>15mm</b> | 254-27         | C2829   |           | 26      | 27     | 1           |         |
|             | 254-27SED      | C2829   |           | 26.2    | 27     | 1 & 7       |         |
|             | 254-27TH       | C2829   |           | 26/30   | 27     | 5           |         |
|             | 254-28THFLEBF  | C2829   |           | 26/31   | 28     | 14-8        |         |
|             | 254-28         | C2829   |           | 26      | 28     | 1           |         |
|             | 254-28TH10R    | C2829   |           | 26/30   | 28     | 11-14       |         |
|             | 254-28DKTH     | C2829   |           | 26/30   | 28     | 14-9        |         |
|             | 254-28TH       | C2829   |           | 26/30   | 28     | 5           |         |
|             | 254-29THCK     | C2829   |           | 26/29   | 29     | 14-4        |         |
|             | 254-30TH       | C2829   |           | 26/30   | 30     | 5           |         |
|             | 254-31         | C2829   |           | 26      | 31     | 1           |         |
|             | 254-314GR      | C2829   |           | 26      | 31     | 1 & 11      |         |
|             | 254-31FTSED    | C2829   |           | 26.2    | 31     | 4 & 7       |         |
|             | 254-31FTCK     | C2829   |           | 26      | 31     | 4 & 14-2    |         |
|             | 254-31FT2CK    | C2829   |           | 26.2    | 31     | 4 & 14-10   |         |
|             | 254-31FTCKSED  | C2829   |           | 26.2    | 31     | 4, 7 & 14-2 |         |
|             | 254-31FT3CKSED | C2829   |           | 26.2    | 31     | 4, 7 & 14-1 |         |
|             | 254-31FTSWBSQ  | C2829   |           | 26.2    | 31     | 4 & 24-01   |         |
|             | 254-31FTSWBEC  | C2829   |           | 26.2    | 31     | 4 & 24      |         |
|             | 254-32         | C2829   |           | 26      | 32     | 1           |         |
|             | 254-32TH       | C2829   |           | 26/29   | 32     | 5           |         |
|             | 254-33         | C2829   |           | 26      | 33     | 1           |         |
|             | 254-33TH10R    | C2829   |           | 26/30   | 33     | 11-14       |         |
|             | 254-33SFT      | C2829   |           | 26      | 33     | 3           |         |
|             | 254-33FTSED    | C2829   |           | 26.2    | 33     | 4 & 7       |         |
|             | 254-35         | C2829   |           | 26      | 35     | 1           |         |
|             | 254-35TH       | C2829   |           | 26/30   | 35     | 5           |         |
|             | 254-38         | C2829   |           | 26      | 38     | 1           |         |
|             | 254-38DOM      | C2829   |           | 26      | 38     | 2           |         |
|             | 254-38FTCK     | C2829   |           | 26      | 38     | 4 & 14-2    |         |
|             | 254-38FT3CK    | C2829   |           | 26      | 38     | 4 & 14-1    |         |
|             | 254-38FT3R     | C2829   |           | 26      | 38     | 4 & 11-2    |         |
|             | 254-40FT3R     | C2829   |           | 26      | 40     | 4 & 11-2    |         |
|             | 254-40         | C2829   |           | 26      | 40     | 1           |         |
|             | 254-41         | C2829   |           | 26      | 41     | 1           |         |
|             | 254-4211R      | C2829   |           | 26.7    | 42     | 11-1        |         |
|             | 254-435        | C2829   |           | 26.7    | 43.5   | 1           |         |
|             | 289-30SED      | C3030   |           | 29.7    | 30     | 1 & 7       |         |
|             | 289-305R       | C3030   |           | 29.5    | 30     | 1 & 11-6    |         |
|             | 289-30         | C3030   |           | 29.5    | 30     | 1           |         |
|             | 289-34         | C3030   |           | 29.5    | 34     | 1           |         |
|             | 289-37         | C3030   |           | 29.5    | 37     | 1           |         |
|             | ROTEX35        | C2915   |           | 36.2    | 35     | 1           |         |
|             | ROTEX38        | C2915   |           | 36.2    | 38     | 1           |         |
| <b>17mm</b> | 20-35          | C2289   |           | 22.1    | 35     | 1           |         |
|             | 20-37          | C2289   |           | 22.1    | 37     | 1           |         |
|             | 20-37DOM       | C2289   |           | 22.1    | 37     | 2           |         |
|             | 20-40          | C2289   |           | 22.1    | 40     | 1           |         |
|             | 20-42          | C2289   |           | 22.1    | 42     | 1           |         |
|             | 20-45          | C2289   |           | 22.1    | 45     | 1           |         |

**Product Group 2**  
**Caps with plastic inserts for crimped pumps**

| Size        | Cap Code    | Insert  |           | Cap O/D   | Height | Style    | Comment           |
|-------------|-------------|---------|-----------|-----------|--------|----------|-------------------|
|             |             | FEA Fit | G.P.I Fit |           |        |          |                   |
| <b>18mm</b> | 20-31       | C2316   |           | 22.1      | 31     | 1        |                   |
|             | 20-32TU     | C2316   |           | 22.1/31   | 32     | 10       | Restricted finish |
|             | 20-33TAPER  | C2316   |           | 26.2/22.1 | 33.4   | 34       |                   |
|             | 20-3411R    | C2316   |           | 22.9 REF  | 34     | 11-1     |                   |
|             | 20-35       | C2316   |           | 22.1      | 35     | 1        |                   |
|             | 20-37       | C2316   |           | 22.1      | 37     | 1        |                   |
|             | 20-37DOM    | C2316   |           | 22.1      | 37     | 2        |                   |
|             | 20-40       | C2316   |           | 22.1      | 40     | 1        |                   |
|             | 20-42       | C2316   |           | 22.1      | 42     | 1        |                   |
|             | 20-45       | C2316   |           | 22.1      | 45     | 1        |                   |
|             | 24-28       | C2677   |           | 23.7      | 28     | 1        |                   |
|             | 24-28FT3GR  | C2677   |           | 23.7      | 28     | 11       |                   |
|             | 24-30       | C2677   |           | 23.7      | 30     | 1        |                   |
|             | 24-30EBSC   | C2677   |           | 23.9 REF  | 30     | 30       |                   |
|             | 24-30FT3GR  | C2677   |           | 23.7      | 30     | 11       |                   |
|             | 24-303GR    | C2677   |           | 23.7      | 30     | 1 & 11   |                   |
|             | 24-305TH    | C2677   |           | 23.7/26.8 | 30.5   | 5        |                   |
|             | 24-31       | C2677   |           | 23.7      | 31     | 1        |                   |
|             | 24-31THLN   | C2677   |           | 23.7/26.7 | 31     | 14-7     |                   |
|             | 24-32       | C2677   |           | 23.7      | 32     | 1        |                   |
|             | 24-32TU     | C2677   |           | 23.7      | 32.5   | 1        | Restricted finish |
|             | 24-32FT3GR  | C2677   |           | 23.7/31   | 32     | 10       |                   |
|             | 24-325      | C2677   |           | 23.7      | 32     | 1 & 11   |                   |
|             | 24-33       | C2677   |           | 23.7      | 33     | 1        |                   |
|             | 24-332R     | C2677   |           | 23.7      | 33     | 1 & 11-3 |                   |
|             | 24-334GR    | C2677   |           | 23.7      | 33     | 11-12    |                   |
|             | 24-33TH     | C2677   |           | 23.7/27.6 | 33     | 5        |                   |
|             | 24-33TH3GR  | C2677   |           | 23.7/26.8 | 33     | 11-4     |                   |
|             | 24-33THCK   | C2677   |           | 23.7/27.6 | 33     | 14-4     |                   |
|             | 24-34FTSED  | C2677   |           | 23.9      | 34     | 4 & 7    |                   |
|             | 24-35       | C2677   |           | 23.7      | 35     | 1        |                   |
|             | 24-35EBSC   | C2677   |           | 23.9 REF  | 35     | 30       |                   |
|             | 24-35DOM    | C2677   |           | 23.7      | 35     | 2        |                   |
|             | 24-35TH     | C2677   |           | 23.7/27.6 | 35     | 5        |                   |
|             | 24-35THGR   | C2677   |           | 23.7/26.8 | 35     | 11-5     |                   |
|             | 24-35TH3GR  | C2677   |           | 23.7/26.8 | 35     | 11-4     |                   |
|             | 24-36FT3R   | C2677   |           | 23.7/26.8 | 35     | 11-4     |                   |
|             | 24-37       | C2677   |           | 23.7/24.3 | 36     | 1 & 11-2 |                   |
|             | 24-37DOM    | C2677   |           | 23.7      | 37     | 1        |                   |
|             | 24-38       | C2677   |           | 23.7      | 37     | 2        |                   |
|             | 24-39       | C2677   |           | 23.7      | 28     | 1        |                   |
|             | 24-39FT3R   | C2677   |           | 23.7      | 39     | 1        |                   |
|             | 24-39FTSED  | C2677   |           | 23.9      | 39     | 4 & 7    |                   |
|             | 24-40       | C2677   |           | 23.7      | 39     | 4 & 11-2 |                   |
|             | 24-40DK     | C2677   |           | 23.7      | 40     | 1 & 14   |                   |
|             | 24-40DOM    | C2677   |           | 23.7      | 40     | 1 & 14-5 |                   |
|             | 24-40IK     | C2677   |           | 23.7      | 40     | 2        |                   |
|             | 24-40RK     | C2677   |           | 23.7      | 40     | 1        |                   |
|             | 24-403CK    | C2677   |           | 23.7      | 40     | 1 & 14-1 |                   |
|             | 24-404DKSED | C2677   |           | 23.9 REF  | 40.45  | 14 & 7   |                   |
|             | 24-42       | C2677   |           | 23.7      | 42     | 1        |                   |
|             | 24-422R     | C2677   |           | 23.7      | 42     | 1 & 11-3 |                   |
|             | 24-43       | C2677   |           | 23.7      | 43     | 1        |                   |
|             | 24-43DOM    | C2677   |           | 23.7      | 43     | 2        |                   |
|             | 24-46       | C2677   |           | 23.7      | 46     | 1        |                   |
|             | 24-489      | C2677   |           | 23.7      | 48.9   | 1        |                   |
|             | 24-49       | C2677   |           | 23.7      | 49     | 1        |                   |
|             | 24-52TU     | C2677   |           | 23.7      | 52     | 10       |                   |

## 10

SACOCAT 32

**Product Group 2**  
**Caps with plastic inserts for crimped pumps**

| Size          | Cap Code       | Insert  |           | Cap O/D | Height | Style      | Comment                |
|---------------|----------------|---------|-----------|---------|--------|------------|------------------------|
|               |                | FEA Fit | G.P.I Fit |         |        |            |                        |
| <b>20mm</b>   | 254-30TH       | C3064   |           | 26/30   | 30     | 5          |                        |
|               | 254-31         | C3064   |           | 26      | 31     | 1          |                        |
|               | 254-314GR      | C3064   |           | 26      | 31     | 1 & 11     |                        |
|               | 254-31FTCK     | C3064   |           | 26      | 31     | 4 & 14-2   |                        |
|               | 254-31FT2CK    | C3064   |           | 26.2    | 31     | 4 & 14-10  |                        |
|               | 254-31FTSED    | C3064   |           | 26.2    | 31     | 4 & 7      |                        |
|               | 254-31FTCKSED  | C3064   |           | 26.2    | 31     | 4,7 & 14-2 |                        |
|               | 254-31FT3CKSED | C3064   |           | 26.2    | 31     | 4,7 & 14-1 |                        |
|               | 254-31FTSWBSQ  | C3064   |           | 26.2    | 31     | 4 & 24-1   |                        |
|               | 254-31FTSWBEC  | C3064   |           | 26.2    | 31     | 4 & 24     |                        |
|               | 254-32         | C3064   |           | 26      | 32     | 1          |                        |
|               | 254-32TH       | C3064   |           | 26/29   | 32     | 5          |                        |
|               | 254-33         | C3064   |           | 26      | 33     | 1          |                        |
|               | 254-33TH10R    | C3064   |           | 26/30   | 33     | 11-14      |                        |
|               | 254-33SFT      | C3064   |           | 26      | 33     | 3          |                        |
|               | 254-33FTSED    | C3064   |           | 26      | 33     | 4 & 7      |                        |
|               | 254-35         | C3064   |           | 26      | 35     | 1          |                        |
|               | 254-35TH       | C3064   |           | 26/30   | 35     | 5          |                        |
|               | 254-38         | C3064   |           | 26      | 38     | 1          |                        |
|               | 254-38DOM      | C3064   |           | 26      | 38     | 2          |                        |
|               | 254-38FT3R     | C3064   |           | 26      | 38     | 11-2       |                        |
|               | 254-38FTCK     | C3064   |           | 26      | 38     | 4 & 14-2   |                        |
|               | 254-38FT3CK    | C3064   |           | 26      | 38     | 4 & 14-1   |                        |
|               | 254-40         | C3064   |           | 26      | 40     | 1          |                        |
|               | 254-40FT3R     | C2550   |           | 27      | 40     | 11-2       |                        |
|               | 254-41         | C2550   |           | 26.7    | 41     | 1          |                        |
|               | 254-4211R      | C2550   |           | 26.7    | 42     | 11-1       |                        |
|               | 254-435        | C2551   |           | 26.7    | 43.5   | 1          |                        |
|               | 314-47SFT      | C2466   |           | 31.8    | 47     | 3          |                        |
|               | 2401-35        | C2682   |           | 25.3    | 35     | 6          |                        |
|               | 2401           | C2401   |           | 25.3    | 41     | 6          |                        |
|               | 2401RIB        | C2401   |           | 25.3    | 41     | 6 & 9      |                        |
|               | 2403           | C3015   |           | 24.8    | 29.25  | 6-1        |                        |
|               | 24036GR30      | C3015   |           | 24.8    | 29.25  | 18         |                        |
|               | 24038GR37      | C3004   |           | 24.8    | 36.6   | 19         |                        |
|               | 39-3425        | C3020   |           | 39      | 34.25  | 1          |                        |
|               | 39-35          | C3020   |           | 39      | 35     | 1          |                        |
| <b>1 INCH</b> | 35-36          | C2240   |           | 35      | 36     | 1          | Tin plate mounting cup |
|               | 35-36FTCK      | C2240   |           | 35      | 36     | 4 & 14-1   | Tin plate mounting cup |
|               | 35-38          | C2240   |           | 35      | 38     | 1          | Tin plate mounting cup |
|               | 35-38SED       | C2240   |           | 35      | 38     | 1 & 7      | Tin plate mounting cup |
|               | 35-40          | C2240   |           | 35      | 40     | 1          | Tin plate mounting cup |
|               | 35-36          | C2367   |           | 35      | 36     | 1          | Aluminium mounting cup |
|               | 35-36FTCK      | C2367   |           | 35      | 36     | 4 & 14-2   | Aluminium mounting cup |
|               | 35-38          | C2367   |           | 35      | 38     | 1          | Aluminium mounting cup |
|               | 35-40          | C2367   |           | 35      | 40     | 1          | Aluminium mounting cup |
|               | 35-38          | C3085   |           | 35      | 38     | 1          | Aluminium mounting cup |
|               | 35-38SED       | C3085   |           | 35      | 38     | 1 & 7      | Aluminium mounting cup |

## 12

SACOCAT 32

**Product Group 3**  
**Shrouds with internal ribs for pumps**

| Size         | Shroud Ref       | O/D   | Height | Rib I/D | Base I/D | Pierce | Fit Type | Comment |
|--------------|------------------|-------|--------|---------|----------|--------|----------|---------|
| <b>15mm</b>  |                  |       |        |         |          |        |          |         |
| <b>A Fit</b> | SRD15A105P144    | 17.20 | 10.5   | 16.02   | 16.20    | 14.4   | A        |         |
|              | SRD15A12P144     | 17.20 | 12.0   | 16.02   | 16.20    | 14.4   | A        |         |
|              | SRD15A12P13      | 17.20 | 12.0   | 16.02   | 16.20    | 13.0   | A        |         |
|              | SRD15A13P138     | 17.20 | 13.0   | 16.02   | 16.20    | 13.8   | A        |         |
|              | SRD15A13P14      | 17.20 | 13.0   | 16.02   | 16.20    | 14.0   | A        |         |
|              | SRD15A13P144     | 17.20 | 13.0   | 16.02   | 16.20    | 14.4   | A        |         |
|              | SRD15A135P138    | 17.20 | 13.5   | 16.02   | 16.20    | 13.8   | A        |         |
|              | SRD15A135P144    | 17.20 | 13.5   | 16.02   | 16.20    | 14.4   | A        |         |
|              | SRD15A14P14      | 17.20 | 14.0   | 16.02   | 16.20    | 14.0   | A        |         |
|              | SRD15A14P144     | 17.20 | 14.0   | 16.02   | 16.20    | 14.4   | A        |         |
|              | SRD15A144P144    | 17.20 | 14.4   | 16.02   | 16.20    | 14.4   | A        |         |
|              | SRD15A144P155    | 17.20 | 14.4   | 16.02   | 16.20    | 15.5   | A        |         |
|              | SRD15A145P144    | 17.20 | 14.5   | 16.02   | 16.20    | 14.4   | A        |         |
|              | SRD15A15P138     | 17.20 | 15.0   | 16.02   | 16.20    | 13.8   | A        |         |
|              | SRD15A15P144     | 17.20 | 15.0   | 16.02   | 16.20    | 14.4   | A        |         |
|              | SRD15A16P14      | 17.20 | 16.0   | 16.02   | 16.20    | 14.0   | A        |         |
|              | SRD15A16P144     | 17.20 | 16.0   | 16.02   | 16.20    | 14.4   | A        |         |
|              | SRD15A16P155     | 17.20 | 16.0   | 16.02   | 16.20    | 15.5   | A        |         |
|              | SRD15A165P14     | 17.20 | 16.5   | 16.02   | 16.20    | 14.0   | A        |         |
|              | SRD15A165P144    | 17.20 | 16.5   | 16.02   | 16.20    | 14.4   | A        |         |
|              | SRD15A17P144     | 17.20 | 17.0   | 16.02   | 16.20    | 14.4   | A        |         |
|              | SRD15A17P155     | 17.20 | 17.0   | 16.02   | 16.20    | 15.5   | A        |         |
|              | SRD15A1725P144   | 17.20 | 17.25  | 16.02   | 16.20    | 14.4   | A        |         |
|              | SRD15A18P14      | 17.20 | 18.0   | 16.02   | 16.20    | 14.0   | A        |         |
|              | SRD15A18P144     | 17.20 | 18.0   | 16.02   | 16.20    | 14.4   | A        |         |
|              | SRD15A18P155     | 17.20 | 18.0   | 16.02   | 16.20    | 15.5   | A        |         |
|              | SRD15A19P144     | 17.20 | 19.0   | 16.02   | 16.20    | 14.4   | A        |         |
|              | SRD15A19P155     | 17.20 | 19.0   | 16.02   | 16.20    | 15.5   | A        |         |
|              | SRD15A20P144     | 17.20 | 20.0   | 16.02   | 16.20    | 14.4   | A        |         |
| <b>C Fit</b> | SRD15C10P138     | 17.37 | 10.0   | 16.19   | 16.57    | 13.8   | C        |         |
|              | SRD15C10P155     | 17.37 | 10.0   | 16.19   | 16.57    | 15.5   | C        |         |
|              | SRD15C12P138     | 17.37 | 12.0   | 16.19   | 16.57    | 13.8   | C        |         |
|              | SRD15C12P144     | 17.37 | 12.0   | 16.19   | 16.57    | 14.4   | C        |         |
|              | SRD15C125P14     | 17.37 | 12.5   | 16.19   | 16.57    | 14.0   | C        |         |
|              | SRD15C13P13      | 17.37 | 13.0   | 16.19   | 16.57    | 13.0   | C        |         |
|              | SRD15C13P138     | 17.37 | 13.0   | 16.19   | 16.57    | 13.8   | C        |         |
|              | SRD15C13P144     | 17.37 | 13.0   | 16.19   | 16.57    | 14.4   | C        |         |
|              | SRD15C134P144    | 17.37 | 13.4   | 16.19   | 16.57    | 14.4   | C        |         |
|              | SRD15C135P138    | 17.37 | 13.5   | 16.19   | 16.57    | 13.8   | C        |         |
|              | SRD15C135P144    | 17.37 | 13.5   | 16.19   | 16.57    | 14.4   | C        |         |
|              | SRD15C135P155    | 17.37 | 13.5   | 16.19   | 16.57    | 15.5   | C        |         |
|              | SRD15C14P13      | 17.37 | 14.0   | 16.19   | 16.57    | 13.0   | C        |         |
|              | SRD15C14P144     | 17.37 | 14.0   | 16.19   | 16.57    | 14.4   | C        |         |
|              | SRD15C14P155     | 17.37 | 14.0   | 16.19   | 16.57    | 15.5   | C        |         |
|              | SRD15C145P138    | 17.37 | 14.5   | 16.19   | 16.57    | 13.8   | C        |         |
|              | SRD15C145P144    | 17.37 | 14.5   | 16.19   | 16.57    | 14.4   | C        |         |
|              | SRD15C15P13      | 17.37 | 15.0   | 16.19   | 16.57    | 13.0   | C        |         |
|              | SRD15C15P14      | 17.37 | 15.0   | 16.19   | 16.57    | 14.0   | C        |         |
|              | SRD15C15P144     | 17.37 | 15.0   | 16.19   | 16.57    | 14.4   | C        |         |
|              | SRD15C155P144    | 17.37 | 15.5   | 16.19   | 16.57    | 14.4   | C        |         |
|              | SRD15C16P144     | 17.37 | 16.0   | 16.19   | 16.57    | 14.4   | C        |         |
|              | SRD15C165P13     | 17.37 | 16.5   | 16.19   | 16.57    | 13.0   | C        |         |
|              | SRD15C165P144    | 17.37 | 16.5   | 16.19   | 16.57    | 14.4   | C        |         |
|              | SRD15C17P144     | 17.37 | 17.0   | 16.19   | 16.57    | 14.4   | C        |         |
|              | SRD15C175P144NS1 | 17.37 | 17.5   | 16.19   | 16.57    | 14.4   | C        |         |
|              | SRD15C18P144     | 17.37 | 18.0   | 16.19   | 16.57    | 14.4   | C        |         |
|              | SRD15C18P155     | 17.37 | 18.0   | 16.19   | 16.57    | 15.5   | C        |         |
|              | SRD15C19P144     | 17.37 | 19.0   | 16.19   | 16.57    | 14.4   | C        |         |
|              | SRD15C20P144     | 17.37 | 20.0   | 16.19   | 16.57    | 14.4   | C        |         |
|              | SRD15C21P14      | 17.37 | 21.0   | 16.19   | 16.57    | 14.4   | C        |         |
|              | SRD15C21P144     | 17.37 | 21.0   | 16.19   | 16.57    | 14.0   | C        |         |

## 14

14

**Product Group 3**  
**Shrouds with internal ribs for pumps**

| Size         | Shroud Ref     | O/D   | Height | Rib I/D | Base I/D | Pierce | Fit Type | Comment |
|--------------|----------------|-------|--------|---------|----------|--------|----------|---------|
| <b>18mm</b>  |                |       |        |         |          |        |          |         |
| <b>A Fit</b> | SRD18A13P14    | 20.36 | 13     | 19.33   | 19.51    | 14.0   | A        |         |
|              | SRD18A13P162   | 20.36 | 13     | 19.33   | 19.51    | 16.2   | A        |         |
|              | SRD18A135P144  | 20.36 | 13.5   | 19.33   | 19.51    | 14.4   | A        |         |
|              | SRD18A14P14    | 20.36 | 14.0   | 19.33   | 19.51    | 14.0   | A        |         |
|              | SRD18A14P162   | 20.36 | 14.0   | 19.33   | 19.51    | 16.2   | A        |         |
|              | SRD18A15P14    | 20.36 | 15.0   | 19.33   | 19.51    | 14.0   | A        |         |
|              | SRD18A15P162   | 20.36 | 15.0   | 19.33   | 19.51    | 16.2   | A        |         |
|              | SRD18A155P144  | 20.36 | 15.5   | 19.33   | 19.51    | 14.4   | A        |         |
|              | SRD18A16P14    | 20.36 | 16.0   | 19.33   | 19.51    | 14.0   | A        |         |
|              | SRD18A16P144   | 20.36 | 16.0   | 19.33   | 19.51    | 14.4   | A        |         |
|              | SRD18A16P162   | 20.36 | 16.0   | 19.33   | 19.51    | 16.2   | A        |         |
|              | SRD18A165P13   | 20.36 | 16.5   | 19.33   | 19.51    | 13.0   | A        |         |
|              | SRD18A165P14   | 20.36 | 16.5   | 19.33   | 19.51    | 14.0   | A        |         |
|              | SRD18A165P162  | 20.36 | 16.5   | 19.33   | 19.51    | 16.2   | A        |         |
|              | SRD18A17P14    | 20.36 | 17.0   | 19.33   | 19.51    | 14.0   | A        |         |
|              | SRD18A17P162   | 20.36 | 17.0   | 19.33   | 19.51    | 16.2   | A        |         |
|              | SRD18A18P162   | 20.36 | 18.0   | 19.33   | 19.51    | 16.2   | A        |         |
|              | SRD18A18P14    | 20.36 | 18.0   | 19.33   | 19.51    | 14.0   | A        |         |
|              | SRD18A185P14   | 20.36 | 18.5   | 19.33   | 19.51    | 14.0   | A        |         |
|              | SRD18A20P162   | 20.36 | 20.0   | 19.33   | 19.51    | 16.2   | A        |         |
|              | SRD18A21P162   | 20.36 | 21.0   | 19.33   | 19.51    | 16.2   | A        |         |
|              | SRD18A22P162   | 20.36 | 22.0   | 19.33   | 19.51    | 16.2   | A        |         |
| <b>B Fit</b> | SRD18B10P13NS2 | 20.43 | 10.0   | 19.41   | 19.58    | 13.0   | B        |         |
|              | SRD18B13P16    | 20.43 | 13.0   | 19.41   | 19.58    | 16.0   | B        |         |
|              | SRD18B14P14    | 20.43 | 14.0   | 19.41   | 19.58    | 14.0   | B        |         |
|              | SRD18B14P162   | 20.43 | 14.0   | 19.41   | 19.58    | 16.2   | B        |         |
|              | SRD18B155P14   | 20.43 | 15.5   | 19.41   | 19.58    | 14.0   | B        |         |
|              | SRD18B155P144  | 20.43 | 15.5   | 19.41   | 19.58    | 14.4   | B        |         |
|              | SRD18B155P162  | 20.43 | 15.5   | 19.41   | 19.58    | 16.2   | B        |         |
|              | SRD18B16P14    | 20.43 | 16.0   | 19.41   | 19.58    | 14.0   | B        |         |
|              | SRD18B16P144   | 20.43 | 16.0   | 19.41   | 19.58    | 14.4   | B        |         |
|              | SRD18B16P16.1  | 20.43 | 16.0   | 19.41   | 19.58    | 16.1   | B        |         |
|              | SRD18B16P162   | 20.43 | 16.0   | 19.41   | 19.58    | 16.2   | B        |         |
|              | SRD18B165P14   | 20.43 | 16.5   | 19.41   | 19.58    | 14.0   | B        |         |
|              | SRD18B165P16   | 20.43 | 16.5   | 19.41   | 19.58    | 16.0   | B        |         |
|              | SRD18B165P162  | 20.43 | 16.5   | 19.41   | 19.58    | 16.2   | B        |         |
|              | SRD18B17P14    | 20.43 | 17.0   | 19.41   | 19.58    | 14.0   | B        |         |
|              | SRD18B17P144   | 20.43 | 17.0   | 19.41   | 19.58    | 14.4   | B        |         |
|              | SRD18B175P14   | 20.43 | 17.5   | 19.41   | 19.58    | 14.0   | B        |         |
|              | SRD18B175P16   | 20.43 | 17.5   | 19.41   | 19.58    | 16.0   | B        |         |
|              | SRD18B18P16    | 20.43 | 18.0   | 19.41   | 19.58    | 16.0   | B        |         |
|              | SRD18B18P162   | 20.43 | 18.0   | 19.41   | 19.58    | 16.2   | B        |         |
|              | SRD18B18P165   | 20.43 | 18.0   | 19.41   | 19.58    | 16.5   | B        |         |
|              | SRD18B185P14   | 20.43 | 18.5   | 19.41   | 19.58    | 14.0   | B        |         |
|              | SRD18B185P162  | 20.43 | 18.5   | 19.41   | 19.58    | 16.2   | B        |         |
|              | SRD18B195P162  | 20.43 | 19.5   | 19.41   | 19.58    | 16.2   | B        |         |
|              | SRD18B20P162   | 20.43 | 20.0   | 19.41   | 19.58    | 16.2   | B        |         |
|              | SRD18B20P144   | 20.43 | 20.0   | 19.41   | 19.58    | 14.4   | B        |         |
| <b>C Fit</b> | SRD18C13P14    | 20.58 | 13.0   | 19.55   | 19.73    | 14.0   | C        |         |
|              | SRD18C16P14    | 20.58 | 16.0   | 19.55   | 19.73    | 14.0   | C        |         |
|              | SRD18C17P144   | 20.58 | 17.0   | 19.55   | 19.73    | 14.4   | C        |         |
|              | SRD18C18P162   | 20.58 | 18.0   | 19.55   | 19.73    | 16.2   | C        |         |
|              | SRD18C185P14   | 20.58 | 18.5   | 19.55   | 19.73    | 14.0   | C        |         |
|              | SRD18C185P15   | 20.58 | 18.5   | 19.55   | 19.73    | 15.0   | C        |         |
| <b>E Fit</b> | SRD18E16P14    | 20.58 | 16.0   | 19.41   | 19.58    | 14.0   | E        |         |
|              | SRD18E18P14    | 20.58 | 18.0   | 19.41   | 19.58    | 14.0   | E        |         |
|              |                |       |        |         |          |        |          |         |
|              |                |       |        |         |          |        |          |         |
|              |                |       |        |         |          |        |          |         |

**Product Group 3**  
**Shrouds with internal ribs for pumps**

| Size  | Shroud Ref    | O/D   | Height | Rib I/D | Base I/D | Pierce | Fit Type | Comment |
|-------|---------------|-------|--------|---------|----------|--------|----------|---------|
| 20mm  |               |       |        |         |          |        |          |         |
| A Fit | SRD20A135P162 | 21.94 | 13.5   | 20.91   | 21.09    | 16.2   | A        |         |
|       | SRD20A14P14   | 21.94 | 14.0   | 20.91   | 21.09    | 14.0   | A        |         |
|       | SRD20A14P162  | 21.94 | 14.0   | 20.91   | 21.09    | 16.2   | A        |         |
|       | SRD20A145P155 | 21.94 | 14.5   | 20.91   | 21.09    | 15.5   | A        |         |
|       | SRD20A145P162 | 21.94 | 14.5   | 20.91   | 21.09    | 16.2   | A        |         |
|       | SRD20A15P14   | 21.94 | 15.0   | 20.91   | 21.09    | 14.0   | A        |         |
|       | SRD20A15P162  | 21.94 | 15.0   | 20.91   | 21.09    | 16.2   | A        |         |
|       | SRD20A155P14  | 21.94 | 15.5   | 20.91   | 21.09    | 14.0   | A        |         |
|       | SRD20A155P162 | 21.94 | 15.5   | 20.91   | 21.09    | 16.2   | A        |         |
|       | SRD20A16P144  | 21.94 | 16.0   | 20.91   | 21.09    | 14.4   | A        |         |
|       | SRD20A16P162  | 21.94 | 16.0   | 20.91   | 21.09    | 16.2   | A        |         |
|       | SRD20A165P162 | 21.94 | 16.5   | 20.91   | 21.09    | 16.2   | A        |         |
|       | SRD20A165P14  | 21.94 | 16.5   | 20.91   | 21.09    | 14.0   | A        |         |
|       | SRD20A17P14   | 21.94 | 17.0   | 20.91   | 21.09    | 14.0   | A        |         |
|       | SRD20A17P144  | 21.94 | 17.0   | 20.91   | 21.09    | 14.4   | A        |         |
|       | SRD20A17P162  | 21.94 | 17.0   | 20.91   | 21.09    | 16.2   | A        |         |
|       | SRD20A18P144  | 21.94 | 18.0   | 20.91   | 21.09    | 14.4   | A        |         |
|       | SRD20A18P15   | 21.94 | 18.0   | 20.91   | 21.09    | 15.0   | A        |         |
|       | SRD20A18P162  | 21.94 | 18.0   | 20.91   | 21.09    | 16.2   | A        |         |
|       | SRD20A185P134 | 21.94 | 18.5   | 20.91   | 21.09    | 13.4   | A        |         |
|       | SRD20A185P162 | 21.94 | 18.5   | 20.91   | 21.09    | 16.2   | A        |         |
|       | SRD20A19P162  | 21.94 | 19.0   | 20.91   | 21.09    | 16.2   | A        |         |
|       | SRD20A195P18  | 21.94 | 19.5   | 20.91   | 21.09    | 18.0   | A        |         |
|       | SRD20A20P162  | 21.94 | 20.0   | 20.91   | 21.09    | 16.2   | A        |         |
|       | SRD20A21P14   | 21.94 | 21.0   | 20.91   | 21.09    | 14.0   | A        |         |
|       | SRD20A21P15   | 21.94 | 21.0   | 20.91   | 21.09    | 15.0   | A        |         |
|       | SRD20A21P162  | 21.94 | 21.0   | 20.91   | 21.09    | 16.2   | A        |         |
|       | SRD20A23P18   | 21.94 | 21.0   | 20.91   | 21.09    | 18.0   | A        |         |
| B Fit | SRD20B17P162  | 22.00 | 17.0   | 20.80   | 20.98    | 16.2   | B        |         |
|       | SRD20B175P162 | 22.00 | 17.5   | 20.80   | 20.98    | 16.2   | B        |         |
|       | SRD20B19P162  | 22.00 | 19.0   | 20.80   | 20.98    | 16.2   | B        |         |
|       | SRD20B195P162 | 22.00 | 19.5   | 20.80   | 20.98    | 16.2   | B        |         |
|       | SRD20B20P162  | 22.00 | 20.0   | 20.80   | 20.98    | 16.2   | B        |         |
|       | SRD20B21P162  | 22.00 | 21.0   | 20.80   | 20.98    | 16.2   | B        |         |
| C Fit | SRD20C10P162  | 22.08 | 10.0   | 21.05   | 21.23    | 16.2   | C        |         |
|       | SRD20C14P162  | 22.08 | 14.0   | 21.05   | 21.23    | 16.2   | C        |         |
|       | SRD20C145P144 | 22.08 | 14.5   | 21.05   | 21.23    | 14.4   | C        |         |
|       | SRD20C145P162 | 22.08 | 14.5   | 21.05   | 21.23    | 16.2   | C        |         |
|       | SRD20C15P14   | 22.08 | 15.0   | 21.05   | 21.23    | 14.0   | C        |         |
|       | SRD20C15P162  | 22.08 | 15.0   | 21.05   | 21.23    | 16.2   | C        |         |
|       | SRD20C165P162 | 22.08 | 16.5   | 21.05   | 21.23    | 16.2   | C        |         |
|       | SRD20C17P162  | 22.08 | 17.0   | 21.05   | 21.23    | 16.2   | C        |         |
|       | SRD20C18P144  | 22.08 | 18.0   | 21.05   | 21.23    | 14.4   | C        |         |
|       | SRD20C19P144  | 22.08 | 19.0   | 21.05   | 21.23    | 14.4   | C        |         |
|       | SRD20C20P144  | 22.08 | 20.0   | 21.05   | 21.23    | 14.4   | C        |         |
|       | SRD20C18P162  | 22.08 | 18.0   | 21.05   | 21.23    | 16.2   | C        |         |
|       | SRD20C19P162  | 22.08 | 19.0   | 21.05   | 21.23    | 16.2   | C        |         |
|       | SRD20C20P144  | 22.08 | 20.0   | 21.05   | 21.23    | 14.4   | C        |         |
|       | SRD20C20P162  | 22.08 | 20.0   | 21.05   | 21.23    | 16.2   | C        |         |
|       | SRD20C21P162  | 22.08 | 21.0   | 21.05   | 21.23    | 16.2   | C        |         |
| D Fit | SRD20D14P162  | 22.08 | 14.0   | 20.91   | 21.09    | 16.2   | D        |         |
|       | SRD20D145P162 | 22.08 | 14.5   | 20.91   | 21.09    | 16.2   | D        |         |
|       | SRD20D175P162 | 22.08 | 17.5   | 20.91   | 21.09    | 16.2   | D        |         |
|       | SRD20D18P162  | 22.08 | 18.0   | 20.91   | 21.09    | 16.2   | D        |         |
|       | SRD20D20P162  | 22.08 | 20.0   | 20.91   | 21.09    | 16.2   | D        |         |



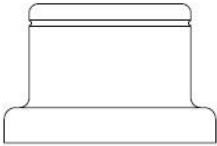
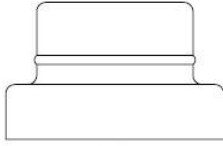
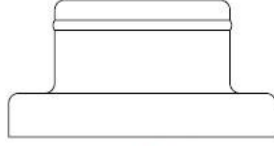
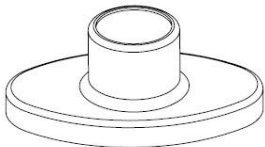
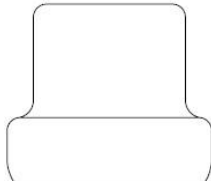
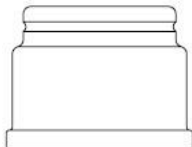
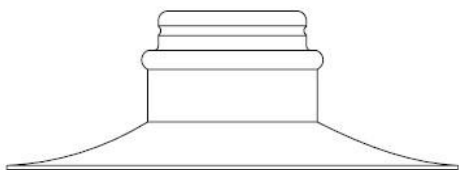
## 18

SACOCAT 32

**Product group 4**  
**Shrouds with ribs and beads (Internal and External)**

[illegible]

**Product Group 5**  
**Shrouds with internal ribs and step at open end**

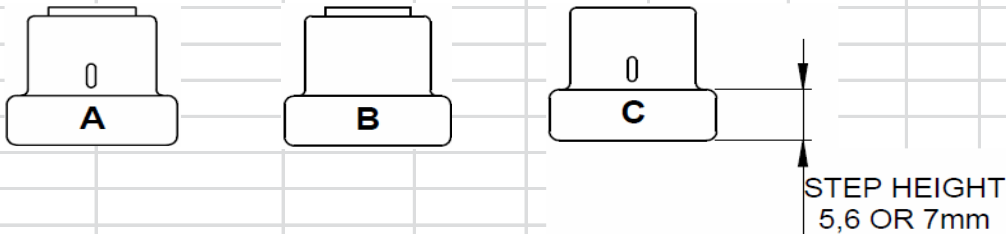
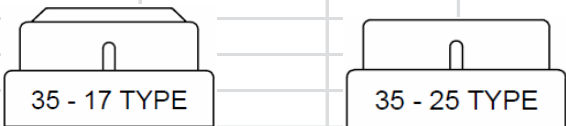
| Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Shroud Ref                   | O/D Nose | O/A Height | Step Dia.   | Step Height | Rib I/D | Base I/D | Pierce Ø | Bead Ø | Bead Posn. | Fit Type | Style | Comment                           | 20 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------|------------|-------------|-------------|---------|----------|----------|--------|------------|----------|-------|-----------------------------------|----|
| <b>13mm</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                              |          |            |             |             |         |          |          |        |            |          |       |                                   |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | STEP20421                    | 15.15    | 14.1       | 20.4        | 2.1         | 14.12   | 14.40    | 12.8     | 15.7   | 2.00       |          | 2     | Bead position is from top of step |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SRD13A13P128BDEXT-STEP20418  | 15.15    | 13.8       | 20.4        | 1.8         | 14.12   | 14.40    | 12.8     | 15.7   | 2.00       |          | 2     | Bead position is from top of step |    |
| <b>15mm</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                              |          |            |             |             |         |          |          |        |            |          |       |                                   |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SRD15A15P14STEPBDINT         | 17.20    | 15         | 26          | 4           | 16.02   | 16.40    | 14.0     | 16.20  | 2.54       | A        | 1     | Bead from pierce                  |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SRD15B13P144STEP             | 17.20    | 13         | 19          | 3.75        | 16.06   | 16.25    | 14.4     | -      | -          | B        | 6     |                                   |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SRD15B14P144STEP             | 17.20    | 14         | 19          | 3.75        | 16.06   | 16.25    | 14.4     | -      | -          | B        | 6     |                                   |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SRD15C135P13STEPBDEXT        | 17.37    | 13.5       | 26.5        | 4.3         | 16.19   | 16.57    | 13       | 17.70  | 2.5        | C        | 3     | Bead from pierce                  |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SRD15D167P146STEP56-BDINTNS2 | 17.25    | 16.7       | 31.2        | 5.6         | 16.14   | 16.40    | 14.6     | 16.70  | 8.50       | D        | 1     | Bead from pierce                  |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SRD15L15P14STEP6BDEXT        | 17.20    | 15         | 24          | 6           | 16.08   | 16.15    | 14.0     | 17.70  | 6.30       | L        | 2     | Bead from pierce                  |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SRD15U145P138STEPBDINT       | 17.20    | 14.5       | 26          | 3.5         | 16.17   | 16.30    | 13.8     | 16.75  | 2.54       |          | 1     | Bead from pierce                  |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SRD15S18P144OVAL             | 17.31    | 18         | 48.6 x 29.4 | 5.2         | 16.19   | 16.31    | 14.4     | -      | -          |          | OVAL  |                                   |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SRD15-245-72                 | 17.04    | 19.6       | 24.5        | 7.2         | 16.10   | 16.26    | 12.83    | 17.70  | 2.60       |          | 2     | Bead from pierce                  |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SRD15-867                    | 17.28    | 14.75      | 22.6        | 3.75        | 16.17   | 16.30    | 14.0     | 16.80  | 2.05       |          | 1     | Bead from pierce                  |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SRD15-867-01                 | 17.28    | 14.75      | 22.6        | 3.75        | 16.17   | 16.30    | 14.0     | 16.80  | 2.50       |          | 1     | Bead from pierce                  |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SRD15-867-06                 | 17.28    | 13.5       | 22.6        | 2.5         | 16.17   | 16.30    | 14.0     | 16.78  | 2.05       |          | 1     | Bead from pierce                  |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SRD15-867-07                 | 17.28    | 14.5       | 30.0        | 5.0         | 16.17   | 16.30    | 14.4     | 16.78  | 2.05       |          | 1     | Bead from pierce                  |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SRD15-867-08                 | 17.28    | 14.75      | 22.6        | 3.75        | 16.17   | 16.30    | 14.0     | 16.80  | 2.25       |          | 1     | Bead from pierce                  |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SRD15-867-10                 | 17.28    | 17.50      | 25.0        | 11.9        | 16.17   | 16.30    | 13.4     | 16.80  | 2.25       |          | 1     | Bead from pierce                  |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SRD15-867-11                 | 17.28    | 13.95      | 22.6        | 4.0         | 16.17   | 16.30    | 14.0     | 16.78  | 2.05       |          | 1     | Bead from pierce                  |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SRD15-867-13                 | 17.28    | 15.00      | 26.0        | 4.0         | 16.17   | 16.30    | 14.0     | 16.90  | 2.60       |          | 1     | Bead from pierce                  |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SRD15-867NS                  | 17.28    | 14.0       | 22.6        | 3.75        | 16.17   | 16.30    | 14.0     | -      | -          |          | 4     |                                   |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SRD15-867-09                 | 17.28    | 14.75      | 22.6        | 3.75        | 16.17   | 16.30    | 14.0     | -      | -          |          | 4     |                                   |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SRD1535-03                   | 17.04    | 15.11      | 28.42       | 4.46        | 16.10   | 16.28    | 12.83    | 16.28  | 2.26       |          | 1     | Bead from pierce                  |    |
| <div>     </div> <div>     </div> |                              |          |            |             |             |         |          |          |        |            |          |       |                                   |    |

## 21

21

**Product Group 6**  
**Stepped Shrouds without internal ribs and with external nibs**

22

| Size                                                                                | Shroud Code | Body Outside Dia | Internal Fit Dia. | Height | Pierce | Step Dia. & Height | Fit nib Dia. | Style | Comment |
|-------------------------------------------------------------------------------------|-------------|------------------|-------------------|--------|--------|--------------------|--------------|-------|---------|
| <b>20mm PUMP</b>                                                                    | ML1         | 21.7             | 20.9              | 23.3   | 15.0   | 27.5 x 7           | 22.5         | A     |         |
|                                                                                     | ML1NONIB7   | 21.7             | 20.9              | 23.5   | 15.0   | 27.5 x 7           | N/A          | B     |         |
|                                                                                     | ML1NOSPT5   | 21.7             | 20.9              | 19     | 16.2   | 27.5 x 5           | 22.5         | C     |         |
|                                                                                     | ML1NOSPT6   | 21.7             | 20.9              | 21     | 16.2   | 27.5 x 6           | 22.5         | C     |         |
|                                                                                     | ML1NOSPT7   | 21.7             | 20.9              | 21     | 16.2   | 27.5 x 7           | 22.5         | C     |         |
|                                                                                     |             |                  |                   |        |        |                    |              |       |         |
|                                                                                     | ML2         | 21.7             | 21.10             | 29     | 15.0   | 27.5 x 12          | 22           | A     |         |
|                                                                                     | ML2NONIB    | 21.8             | 21.05             | 29     | 15.0   | 27.5 x 12          | N/A          | B     |         |
|  |             |                  |                   |        |        |                    |              |       |         |
| <b>35mm CAN</b>                                                                     | 35-17       | 33.8             | 34.85             | 18.5   | 17.0   | 35.5 x 9           | 34.85        |       |         |
|                                                                                     | 35-25COLLAF | 33.8             | 34.85             | 15.5   | 25.0   | 35.5 x 8           | 34.85        |       |         |
|  |             |                  |                   |        |        |                    |              |       |         |

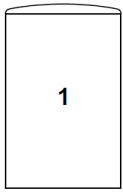
## 23

SACOCAT 32

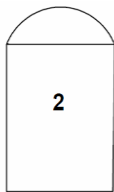
## Product Groups 8

### Caps with plastic inserts for Shrouds from Product Group 3

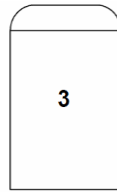
24



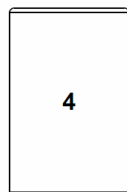
1. STANDARD CAP



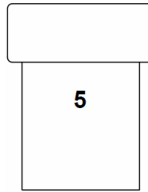
2. DOMED TOP CAP



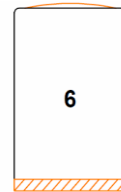
3. SOFT TOP CAP



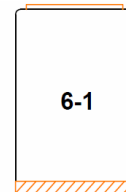
4. FLAT TOP CAP



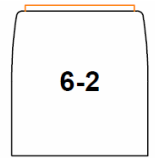
5. TOP HAT CAP



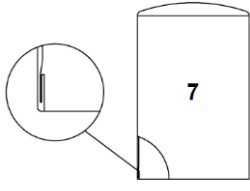
6. CAP WITH PLASTIC INSERT VISIBLE AT BOTH CLIP AND TOP FACE



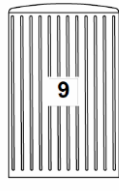
6-1. CAP WITH PLASTIC INSERT VISIBLE AT BOTH CLIP AND TOP FACE



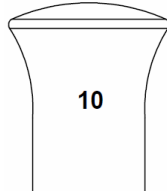
6-2. CAP WITH PLASTIC VISIBLE ON TOP FACE



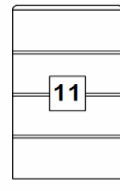
7. SED CAP (SAFE EDGE)



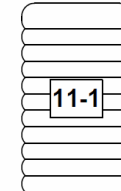
9. FLUTED OUTSIDE DIAMETER



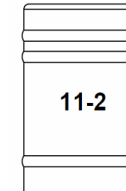
10. TULIP CAP



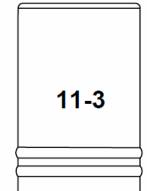
11. 3 GROOVE RING CAP



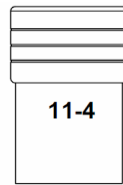
11-1. 11 RING CAP



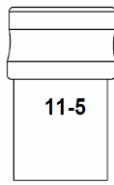
11-2. 3 RING CAP



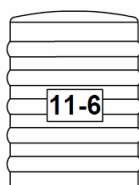
11-3. 2 EXT RING CAP



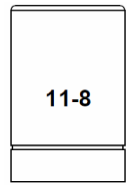
11-4. 3 GROOVE RING TOP HAT CAP



11-5. GROOVED TOP HAT CAP



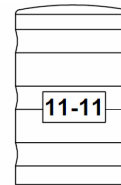
11-6. 5 RING CAP



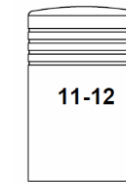
11-8. 1 GROOVE RING CAP



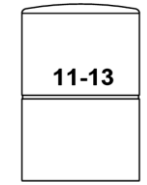
11-10. 2 GROOVE RING CAP



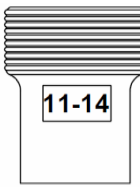
11-11. 3 GROOVE RING CAP



11-12. 4 GROOVE RING CAP



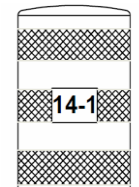
11-13. 1 GROOVE RING CAP



11-14. TOP HAT CAP WITH 10 RINGS



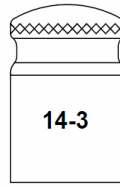
14. DIAGONAL KNURL CAP



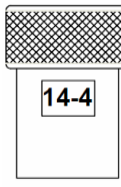
14-1. 3 BAND CROSS KNURL CAP



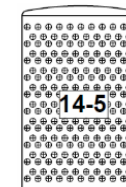
14-2. CROSS KNURLED CAP



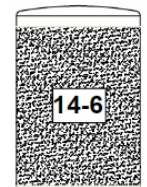
14-3. CROSS KNURLED INTERNALLY BEADED CAP



14-4. CROSS KNURLED TOP HAT CAP



14-5. INDENT KNURL CAP



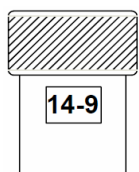
14-6. RANDOM KNURLED CAP



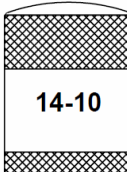
14-7. TOP HAT LINED CAP



14-8. TOP HAT FLUTED CAP WITH EMBOSSED FACE



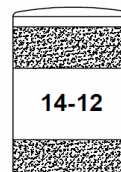
14-9. DIAGONAL KNURLED TOP HAT CAP



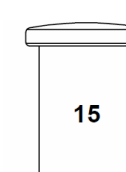
14-10. CAP WITH 2 CROSS KNURLED BANDS



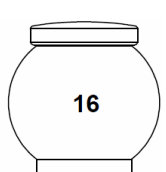
14-11. CAP WITH RANDOM KNURLED BAND



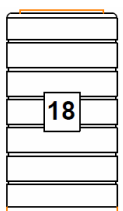
14-21. CAP WITH 2 RANDOM KNURLED BANDS



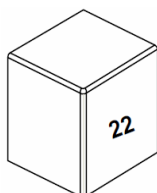
15. DISC TOP CAP



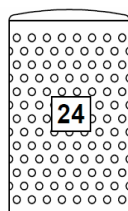
16. SPHERE CAP



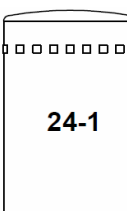
18. 6 GROOVE CAP WITH VISIBLE PLASTIC INSERT



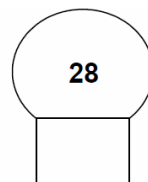
22. SQUARE PROFILE CAP



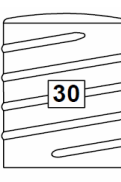
24. SIDE WALL EMBOSSED



24-1. SIDE WALL EMBOSSED WITH SQUARES



28. BULGED CAP



30. SCREW CAP



34. TAPERED CAP

**Product Groups 8**  
**Caps with plastic inserts for Shrouds from Product Group 3**

| Pump Size | Cap Code       | Cap O/D   | Height | Insert No | Fit Type | Insert O/D | Rib I/D   | Cap Style | Comment                                                   |
|-----------|----------------|-----------|--------|-----------|----------|------------|-----------|-----------|-----------------------------------------------------------|
| 13mm      | 15415-25       | 18.8      | 25     | C2641     | A & D    | 18.2       | 15.10     | 1         |                                                           |
|           | 15415-28       | 18.8      | 28     | C2641     | A & D    | 18.2       | 15.10     | 1         |                                                           |
|           | 15415-30       | 18.8      | 30     | C2641     | A & D    | 18.2       | 15.10     | 1         |                                                           |
|           | 174-23         | 18.0      | 23     | C3179     | A & D    | 17.4       | 15.10     | 1         |                                                           |
| 15mm      | 196-28         | 20.4      | 28     | C3000     | A & D    | 19.9       | 17.10 Ref | 1         |                                                           |
|           | 196-28RKB      | 20.4      | 28     | C3000     | A & D    | 19.9       | 17.10 Ref | 14-11     |                                                           |
|           | 196-282RKB     | 20.4      | 28     | C3000     | A & D    | 19.9       | 17.10 Ref | 14-12     |                                                           |
|           | 196-28FT1GR    | 20.4      | 28     | C3000     | A & D    | 19.9       | 17.10 Ref | 11-8      |                                                           |
|           | 196-30         | 20.4      | 30     | C3000     | A & D    | 19.9       | 17.10 Ref | 1         |                                                           |
|           | 196-31TH       | 23.5/20.4 | 31     | C3000     | A & D    | 19.9       | 17.10 Ref | 5         |                                                           |
|           | 196-32         | 20.4      | 32     | C3000     | A & D    | 19.9       | 17.10 Ref | 1         |                                                           |
|           | 196-32         | 20.4      | 32     | C3000     | A & D    | 19.9       | 17.10 Ref | 1         |                                                           |
|           | 196-32DOM      | 20.4      | 32     | C3000     | A & D    | 19.9       | 17.10 Ref | 2         |                                                           |
|           | 196-33BC       | 20.4/26.7 | 33.3   | C3000     | A & D    | 19.9       | 17.10 Ref | 28        |                                                           |
|           | 196-371GR      | 20.4      | 37     | C3000     | A & D    | 19.9       | 17.10 Ref | 11-13     |                                                           |
|           | 196-32         | 20.4      | 32     | C2960     | A & D    | 19.9       | 17.10 Ref | 1         |                                                           |
|           | 196-32SED      | 20.6      | 32     | C2960     | A & D    | 19.9       | 17.10 Ref | 1 & 7     |                                                           |
|           | 196-35FT3R     | 20.4      | 35     | C2960     | A & D    | 19.9       | 17.10 Ref | 4 & 11-2  |                                                           |
|           | 196-35         | 20.4      | 35     | C2960     | A & D    | 19.9       | 17.10 Ref | 1         |                                                           |
|           | 196-35SED      | 20.6      | 35     | C2960     | A & D    | 19.9       | 17.10 Ref | 1 & 7     |                                                           |
|           | 196-35DT       | 20.4/25   | 34.5   | C2960     | A & D    | 19.9       | 17.10 Ref | 15        |                                                           |
|           | 196-35DTSPHERE | 32.0      | 35     | C2960     | A & D    | 19.9       | 17.10 Ref | 16        |                                                           |
|           | 196-37         | 20.4      | 37     | C2960     | A & D    | 19.9       | 17.10 Ref | 1         |                                                           |
|           | 196-371GR      | 20.4      | 37     | C2960     | A & D    | 19.9       | 17.10 Ref | 11-13     |                                                           |
|           | 196-38         | 20.4      | 38     | C2960     | A & D    | 19.9       | 17.10 Ref | 1         |                                                           |
|           | 196-42         | 20.4      | 42     | C2960     | A & D    | 19.9       | 17.10 Ref | 1         |                                                           |
|           | 196-xx         | 20.4      | 42     | TBC       | C        | 19.9       | 17.10 Ref |           | In development please ask sales team for more information |
|           | 196-25         | 20.4      | 25     | C2630     | A        | 19.9       | 17.16     | 1         |                                                           |
|           | 196-26BC       | 20.4/26.7 | 26     | C2630     | A        | 19.9       | 17.16     | 28        |                                                           |
|           | 196-27         | 20.4      | 27     | C2630     | A        | 19.9       | 17.16     | 1         |                                                           |
|           | 196-28         | 20.4      | 28     | C2630     | A        | 19.9       | 17.16     | 1         |                                                           |
|           | 196-33BC       | 20.4/26.7 | 33.3   | C2630     | A        | 19.9       | 17.16     | 28        |                                                           |
|           | 196-371GR      | 20.4      | 37     | C2630     | A        | 19.9       | 17.16     | 11-13     |                                                           |
|           | 196-25         | 20.4      | 25     | C2629     | C        | 19.9       | 17.32     | 1         |                                                           |
|           | 196-27         | 20.4      | 27     | C2629     | C        | 19.9       | 17.32     | 1         |                                                           |
|           | 196-33BC       | 20.4/26.7 | 33.3   | C2629     | C        | 19.9       | 17.32     | 28        |                                                           |
|           | 196-371GR      | 20.4      | 37     | C2629     | C        | 19.9       | 17.32     | 11-13     |                                                           |
|           | 196-371GR      | 20.4      | 37     | C2886     | A        | 19.9       | 17.20     | 11-13     |                                                           |
|           | 196-38         | 20.4      | 38     | C2886     | A        | 19.9       | 17.20     | 1         |                                                           |
|           | 196-32         | 20.4      | 32     | C3379     | D        | 19.9       | 17.25     | 1         | Longer metal length caps available with this C3379        |
|           | 20-33 TAPER    | 26.2/22.3 | 33.3   | C3284     | C        | 21.56      | 17.30 REF | 34        |                                                           |
|           | 22-33          | 22.7      | 33     | C2772     | A        | 22.15      | 17.20     | 1         |                                                           |
|           | 22-35          | 22.7      | 35     | C2772     | A        | 22.15      | 17.20     | 1         |                                                           |
|           | 22-36          | 22.7      | 36     | C2772     | A        | 22.15      | 17.20     | 1         |                                                           |
|           | 22-40          | 22.7      | 40     | C2772     | A        | 22.15      | 17.20     | 1         |                                                           |
|           | 22-40          | 22.7      | 40     | C2772     | A        | 22.15      | 17.20     | 1         |                                                           |

**Product Groups 8**  
**Caps with plastic inserts for Shrouds from Product Group 3**

| Pump Size   | Cap Code        | Cap O/D   | Height | Insert No   | Fit Type | Insert O/D | Rib I/D   | Cap Style | Comment                                                                                                                   |
|-------------|-----------------|-----------|--------|-------------|----------|------------|-----------|-----------|---------------------------------------------------------------------------------------------------------------------------|
| <b>15mm</b> | 24-28           | 23.7      | 28     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 1         |                                                                                                                           |
|             | 24-28FT3GR      | 23.7      | 28     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 4 & 11    |                                                                                                                           |
|             | 24-30           | 23.7      | 30     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 1         |                                                                                                                           |
|             | 24-30FT3GR      | 23.7      | 30     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 4 & 11    |                                                                                                                           |
|             | 24-30EBSC       | 23.9 REF  | 30     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 30        |                                                                                                                           |
|             | 24-303GR        | 23.7      | 30     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 1 & 11    |                                                                                                                           |
|             | 24-305TH        | 23.7/26.8 | 30.5   | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 5         |                                                                                                                           |
|             | 24-31           | 23.7      | 31     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 1         |                                                                                                                           |
|             | 24-31THLN       | 23.7/26.7 | 31     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 14-7      |                                                                                                                           |
|             | 24-32           | 23.7      | 32     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 1         |                                                                                                                           |
|             | 24-32FT3GR      | 23.7      | 32     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 11        |                                                                                                                           |
|             | 24-32TU         | 23.7/31   | 32     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 10        | Restricted finish                                                                                                         |
|             | 24-325          | 23.7      | 32.5   | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 1         |                                                                                                                           |
|             | 24-33           | 23.7      | 33     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 1         |                                                                                                                           |
|             | 24-33DOM        | 23.7      | 33     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 2         |                                                                                                                           |
|             | 24-33TH         | 23.7/27.6 | 33     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 5         | Note: Optional C2967 insert has a 18.5mm hole in the top face - suitable for "A, C & D" Fit shrouds. Material is LDPE     |
|             | 24-33THCK       | 23.7/27.6 | 33     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 14-4      |                                                                                                                           |
|             | 24-33TH3GR      | 23.7/26.8 | 33     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 11-4      |                                                                                                                           |
|             | 24-332R         | 23.7      | 33     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 1 & 11-3  |                                                                                                                           |
|             | 24-334GR        | 23.7      | 33     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 11-12     |                                                                                                                           |
|             | 24-34FTSED      | 23.9      | 34     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 4 & 7     |                                                                                                                           |
|             | 24-35           | 23.7      | 35     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 1         |                                                                                                                           |
|             | 24-35EBSC       | 23.9 REF  | 35     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 30        | Note: Optional C3002 insert is closed with an internal height of 24mm - only suitable for "A" fit shrouds. Material is PP |
|             | 24-35TH         | 23.7/27.6 | 35     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 5         |                                                                                                                           |
|             | 24-35THGR       | 23.7/26.8 | 35     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 11-5      |                                                                                                                           |
|             | 24-35TH3GR      | 23.7/26.8 | 35     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 11-4      |                                                                                                                           |
|             | 24-36FT3R       | 23.7/24.3 | 36     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 11-2      |                                                                                                                           |
|             | 24-37           | 23.7      | 37     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 1         |                                                                                                                           |
|             | 24-37DOM        | 23.7      | 37     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 2         |                                                                                                                           |
|             | 24-38           | 23.7      | 38     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 1         |                                                                                                                           |
|             | 24-39           | 23.7      | 39     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 1         |                                                                                                                           |
|             | 24-39FTSED      | 23.9      | 39     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 4 & 7     |                                                                                                                           |
|             | 24-39FT3R       | 23.7/24.3 | 39     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 11-2      |                                                                                                                           |
|             | 24-40           | 23.7      | 40     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 1         |                                                                                                                           |
|             | 24-40DK         | 23.7      | 40     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 14        |                                                                                                                           |
|             | 24-40DKSED      | 23.7      | 40     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 14        | MOQ 100K                                                                                                                  |
|             | 24-40DOM        | 23.7      | 40     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 2         |                                                                                                                           |
|             | 24-40IK         | 23.7      | 40     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 14-5      |                                                                                                                           |
|             | 24-40RK         | 23.7      | 40     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 14-6      |                                                                                                                           |
|             | 24-403CK        | 23.7      | 40     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 14-1      |                                                                                                                           |
|             | 24-404DKSED     | 23.9 REF  | 40.45  | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 14 & 7    |                                                                                                                           |
|             | 24-42           | 23.7      | 42     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 1         |                                                                                                                           |
|             | 24-422R         | 23.7/24.3 | 42     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 1 & 11-3  |                                                                                                                           |
|             | 24-43           | 23.7      | 43     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 1         |                                                                                                                           |
|             | 24-43DOM        | 23.7      | 43     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 2         |                                                                                                                           |
|             | 24-46           | 23.7      | 46     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 1         |                                                                                                                           |
|             | 24-489          | 23.7      | 48.9   | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 1         |                                                                                                                           |
|             | 24-49           | 23.7      | 49     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 1         |                                                                                                                           |
|             | 24-52TU         | 23.7/31.4 | 52     | C2967/C3002 | A,C & D  | 23.2       | 16.0      | 10        |                                                                                                                           |
|             | 2403            | 24.8      | 29.25  | C3014       | A        | 24.0       | 17.12     | 6-1       |                                                                                                                           |
|             | 2402MOD         | 19.0      | 34     | C2450       | A        | 20.0       | 17.30     | 6         |                                                                                                                           |
|             | 24036GR30       | 24.8      | 29.25  | C3014       | A        | 24.0       | 17.12     | 18        |                                                                                                                           |
|             | 2404            | 24.9/22.2 | 23.5   | C3172       | A        | 24.1/21.4  | 17.10     | 6-2       |                                                                                                                           |
|             | 253-30SQ*       | 25.3x25.3 | 30     | C3129       | A        | 24.5/24.5  | 17.15     | 22        | Restricted finish                                                                                                         |
|             | 254-272FTSED2GR | 26.2      | 27.2   | C3212       | A,C & D  | 25.4       | 17.10 Ref | 11-10     | In LDPE Natural Only<br>TO SUIT THESE METALS                                                                              |
|             | 254-30FT3R      | 26.2      | 27.2   | C3212       | A,C & D  | 25.4       | 17.10 Ref | 11-11     |                                                                                                                           |
|             |                 |           |        |             |          |            |           |           |                                                                                                                           |
|             |                 |           |        |             |          |            |           |           |                                                                                                                           |
|             |                 |           |        |             |          |            |           |           |                                                                                                                           |
|             |                 |           |        |             |          |            |           |           |                                                                                                                           |

## 27

27

## 28

SACOCAT 32

## 29

SACOCAT 32

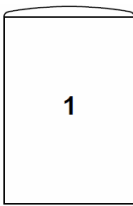
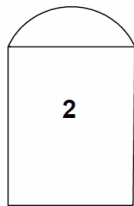
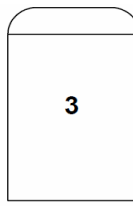
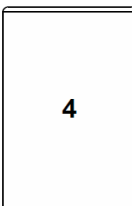
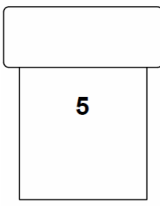
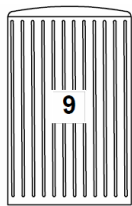
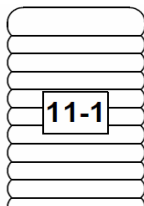
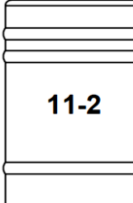
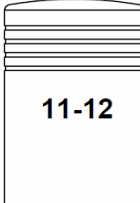
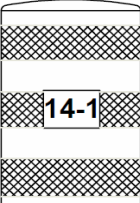
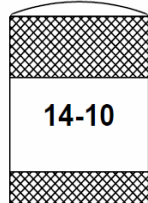
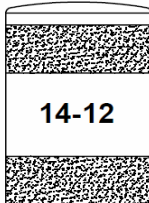
## 30

30

**Product Groups 8**  
**Caps with plastic inserts for Shrouds from Product Group 3**

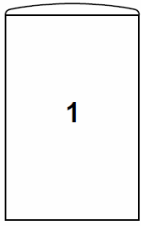
| Pump Size   | Cap Code       | Cap O/D | Height | Insert No | Fit Type | Insert O/D | Rib I/D | Cap Style   | Comment |
|-------------|----------------|---------|--------|-----------|----------|------------|---------|-------------|---------|
| <b>20mm</b> | 254-30TH       | 26/30   | 30     | C2666     | A        | 25.5       | 21.6    | 5           |         |
|             | 254-31         | 26.0    | 31     | C2666     | A        | 25.5       | 21.6    | 1           |         |
|             | 254-314GR      | 26.0    | 31     | C2666     | A        | 25.5       | 21.6    | 1 & 11      |         |
|             | 254-31FTCK     | 26.0    | 31     | C2666     | A        | 25.5       | 21.6    | 4 & 14-2    |         |
|             | 254-31FT2CK    | 26.2    | 31     | C2666     | A        | 25.5       | 21.6    | 4 & 14-10   |         |
|             | 254-31FTSED    | 26.2    | 31     | C2666     | A        | 25.5       | 21.6    | 4 & 7       |         |
|             | 254-31FTCKSED  | 26.2    | 31     | C2666     | A        | 25.5       | 21.6    | 4, 7 & 14-2 |         |
|             | 254-31FT3CKSED | 26.2    | 31     | C2666     | A        | 25.5       | 21.6    | 4, 7 & 14-1 |         |
|             | 254-31FTSWBSQ  | 26.2    | 31     | C2666     | A        | 25.5       | 21.6    | 4 & 24-1    |         |
|             | 254-31FTSWBC   | 26.2    | 31     | C2666     | A        | 25.5       | 21.6    | 4 & 24      |         |
|             | 254-31THFLEBF  | 26/31   | 31     | C2666     | A        | 25.5       | 21.6    | 14-8        |         |
|             | 254-32         | 26.0    | 32     | C2666     | A        | 25.5       | 21.6    | 1           |         |
|             | 254-32TH       | 26/29   | 32     | C2666     | A        | 25.5       | 21.6    | 5           |         |
|             | 254-33         | 26.0    | 33     | C2666     | A        | 25.5       | 21.6    | 1           |         |
|             | 254-33TH10R    | 26/30   | 33     | C2666     | A        | 25.5       | 21.6    | 11-14       |         |
|             | 254-33FTSED    | 26.2    | 33     | C2666     | A        | 25.5       | 22.0    | 4           |         |
|             | 254-35         | 26.0    | 35     | C2666     | A        | 25.5       | 21.6    | 1           |         |
|             | 254-35TH       | 26/30   | 35     | C2666     | A        | 25.5       | 21.6    | 5           |         |
|             | 254-38         | 26.0    | 38     | C2666     | A        | 25.5       | 21.6    | 1           |         |
|             | 254-38FT3R     | 26.0    | 38     | C2666     | A        | 25.5       | 21.6    | 11-2        |         |
|             | 254-38DOM      | 26.0    | 38     | C2666     | A        | 25.5       | 21.6    | 2           |         |
|             | 254-38FTCK     | 26.0    | 38     | C2666     | A        | 25.5       | 21.6    | 4 & 14-2    |         |
|             | 254-38FT3CK    | 26.0    | 38     | C2666     | A        | 25.5       | 21.6    | 4 & 14-1    |         |
|             | 254-40         | 26.0    | 40     | C2666     | A        | 25.5       | 21.6    | 1           |         |
|             | 254-40FT3R     | 26.0    | 40     | C2666     | A        | 25.5       | 21.6    | 11-2        |         |
|             | 254-41         | 26.7    | 41     | C2666     | A        | 25.5       | 21.6    | 1           |         |
|             | 254-4211R      | 26.7    | 42     | C2666     | A        | 25.5       | 21.6    | 11-1        |         |
|             | 254-435        | 26.7    | 43.5   | C2667     | A        | 25.5       | 21.6    | 1           |         |
|             | 254-30TH       | 26/30   | 30     | C2424     | B & C    | 25.5       | 22.0    | 5           |         |
|             | 254-31         | 26.0    | 31     | C2424     | B & C    | 25.5       | 22.0    | 1           |         |
|             | 254-31FTCK     | 26.0    | 31     | C2424     | B & C    | 25.5       | 22.0    | 4 & 14-2    |         |
|             | 254-31FTSED    | 26.2    | 31     | C2424     | B & C    | 25.5       | 22.0    | 4 & 7       |         |
|             | 254-31FTCKSED  | 26.2    | 31     | C2424     | B & C    | 25.5       | 22.0    | 4, 7 & 14-2 |         |
|             | 254-31FT3CKSED | 26.2    | 31     | C2424     | B & C    | 25.5       | 22.0    | 4, 7 & 14-1 |         |
|             | 254-31FTSWBSQ  | 26.2    | 31     | C2424     | B & C    | 25.5       | 22.0    | 4 & 24-1    |         |
|             | 254-31FTSWBC   | 26.2    | 31     | C2424     | B & C    | 25.5       | 22.0    | 4 & 24      |         |
|             | 254-32         | 26.0    | 32     | C2424     | B & C    | 25.5       | 22.0    | 1           |         |
|             | 254-33         | 26.0    | 33     | C2424     | B & C    | 25.5       | 22.0    | 1           |         |
|             | 254-33FTSED    | 26.2    | 33     | C2424     | B & C    | 25.5       | 22.0    | 4 & 7       |         |
|             | 254-35         | 26.0    | 35     | C2424     | B & C    | 25.5       | 22.0    | 1           |         |
|             | 254-35TH       | 26/30   | 35     | C2424     | B & C    | 25.5       | 22.0    | 5           |         |
|             | 254-38         | 26.0    | 38     | C2424     | B & C    | 25.5       | 22.0    | 1           |         |
|             | 254-38DOM      | 26.0    | 38     | C2424     | B & C    | 25.5       | 22.0    | 2           |         |
|             | 254-38FTCK     | 26.0    | 38     | C2424     | B & C    | 25.5       | 22.0    | 4 & 14-2    |         |
|             | 254-38FT3CK    | 26.0    | 38     | C2424     | B & C    | 25.5       | 22.0    | 4 & 14-1    |         |
|             | 254-38FT3R     | 26.0    | 38     | C2424     | B & C    | 25.5       | 22.0    | 11-2        |         |
|             | 254-40         | 26.0    | 40     | C2424     | B & C    | 25.5       | 22.0    | 1           |         |
|             | 254-40FT3R     | 26.0    | 40     | C2424     | B & C    | 25.5       | 22.0    | 11-2        |         |
|             | 254-41         | 26.7    | 41     | C2424     | B & C    | 25.5       | 22.0    | 1           |         |
|             | 254-4211R      | 26.7    | 42     | C2424     | B & C    | 25.5       | 22.0    | 11-1        |         |
|             | 254-435        | 26.7    | 43.5   | C2425     | B & C    | 25.5       | 22.0    | 1           |         |
|             | 289-30         | 30.5    | 30     | C3022     | A        | 29         | 21.8    | 1           |         |
|             | 289-30SED      | 30.7    | 30     | C3022     | A        | 29         | 21.8    | 1 & 7       |         |
|             | 289-30FT       | 30.5    | 30     | C3022     | A        | 29         | 21.8    | 4           |         |
|             | 289-305R       | 30.5    | 30     | C3022     | A        | 29         | 21.8    | 11-6        |         |
|             | 289-37         | 30.5    | 37     | C3022     | A        | 29         | 21.8    | 1           |         |
|             | ROTEX35        | 36.2    | 35     | C3012     | A        | 35.7       | 21.8    | 1           |         |
|             | ROTEX38        | 36.2    | 38     | C3012     | A        | 35.7       | 21.8    | 1           |         |

**Product Group 9**  
**Round caps with or without plastic inserts to fit Shrouds from Product Group 6**

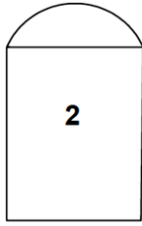
| Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Cap Code    | Height | O/D   | I/D  | Insert | Style     | To Fit Shroud | Comment            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------|-------|------|--------|-----------|---------------|--------------------|
| ML1 / ML2<br>20mm PUMP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 22-33       | 33     | 22.6  | 22.0 | -      | 1         | ML1 / ML2     | NO INSERT REQUIRED |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 22-35       | 35     | 22.6  | 22.0 | -      | 1         | ML1 / ML2     |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 22-36       | 36     | 22.6  | 22.0 | -      | 1         | ML1 / ML2     |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 22-40       | 40     | 22.6  | 22.0 | -      | 1         | ML1 / ML2     |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 22-43       | 43     | 22.6  | 22.0 | -      | 1         | ML1 / ML2     |                    |
| 35mm CAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 35-29       | 29     | 34.9  | 34.3 | -      | 1         | 35-17/35-25   | NO INSERT REQUIRED |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 35-293      | 29.3   | 34.9  | 34.3 | -      | 1         | 35-17/35/25   |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 35-36       | 36     | 34.9  | 34.3 | -      | 1         | 35-17/35-25   |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 35-38       | 38     | 34.9  | 34.3 | -      | 1         | 35-17/35-25   |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 35-40       | 40     | 34.9  | 34.3 | -      | 1         | 35-17/35-25   |                    |
| 20mm PUMP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 254-31      | 31     | 26.0  | 21.6 | C2666  | 1         | ML1/ML2       |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 254-31FTCK  | 31     | 26.0  | 21.6 | C2666  | 4 & 14-2  | ML1/ML2       |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 254-31FT2CK | 31     | 26.2  | 21.6 | C2666  | 4 & 14-10 | ML1/ML2       |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 254-314GR   | 31     | 26.0  | 21.6 | C2666  | 4 & 11-12 | ML1/ML2       |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 254-32      | 32     | 26.0  | 21.6 | C2666  | 1         | ML1/ML2       |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 254-32TH    | 32     | 26/29 | 21.6 | C2666  | 5         | ML1/ML2       |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 254-33      | 33     | 26.0  | 21.6 | C2666  | 1         | ML1/ML2       |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 254-33TH10R | 33     | 26/30 | 21.6 | C2666  | 11-14     | ML1/ML2       |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 254-33FTSED | 33     | 26.0  | 21.6 | C2666  | 4 & 7     | ML1/ML2       |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 254-33SFT   | 33     | 26.0  | 21.6 | C2666  | 3         | ML1/ML2       |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 254-35      | 35     | 26.0  | 21.6 | C2666  | 1         | ML1/ML2       |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 254-35TH    | 35     | 26/30 | 21.6 | C2666  | 5         | ML1/ML2       |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 254-38      | 38     | 26.0  | 21.6 | C2666  | 1         | ML1/ML2       |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 254-38DOM   | 38     | 26.0  | 21.6 | C2666  | 2         | ML1/ML2       |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 254-38FTCK  | 38     | 26.0  | 21.6 | C2666  | 4 & 14-2  | ML1/ML2       |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 254-38FT3CK | 38     | 26.0  | 21.6 | C2666  | 4 & 14-1  | ML1/ML2       |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 254-38FT3R  | 38     | 26.0  | 21.6 | C2666  | 11-2      | ML1/ML2       |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 254-40      | 40     | 26.0  | 21.6 | C2666  | 1         | ML1/ML2       |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 254-40FT3R  | 40     | 26.0  | 21.6 | C2666  | 11-2      | ML1/ML2       |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 254-4211R   | 42     | 26.7  | 21.6 | C2666  | 11-1      | ML1/ML2       |                    |
| Cap Styles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |        |       |      |        |           |               |                    |
| <div><div><p>1</p><p>1. STANDARD CAP</p></div><div><p>2</p><p>2. DOMED TOP CAP</p></div><div><p>3</p><p>3. SOFT TOP CAP</p></div><div><p>4</p><p>4. FLAT TOP CAP</p></div><div><p>5</p><p>5. TOP HAT CAP</p></div><div><p>9</p><p>9. FLUTED OUTSIDE DIAMETER</p></div><div><p>11-1</p><p>11-1. 11 RING CAP</p></div><div><p>11-2</p><p>11-2. 3 RING CAP</p></div><div><p>11-12</p><p>11-12. 4 GROOVE RING CAP</p></div><div><p>11-14</p><p>11-14. TOP HAT CAP WITH 10 RINGS</p></div><div><p>14-1</p><p>14. 3 BAND CROSS KNURL CAP</p></div><div><p>14-2</p><p>14-2. CROSS KNURLED CAP</p></div><div><p>14-10</p><p>14-10. CAP WITH 2 CROSS KNURLED BANDS</p></div><div><p>14-21</p><p>14-21. CAP WITH 2 RANDOM KNURLED BANDS</p></div></div> |             |        |       |      |        |           |               |                    |

## Product Group 10 Caps with Screw Inserts

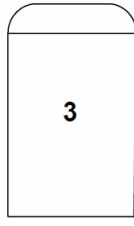
33



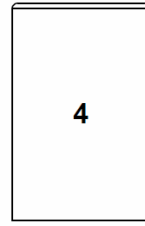
1. STANDARD CAP



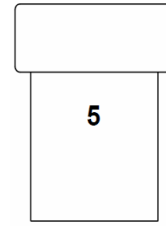
2. DOMED TOP CAP



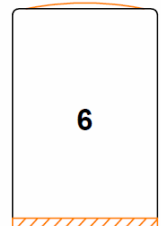
3. SOFT TOP CAP



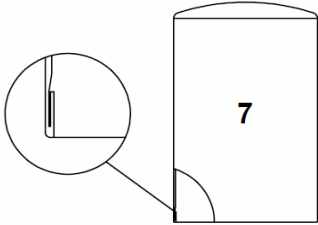
4. FLAT TOP CAP



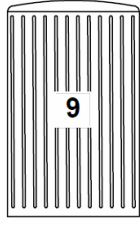
5. TOP HAT CAP



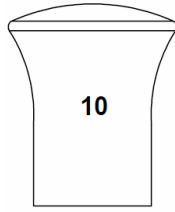
6. CAP WITH PLASTIC INSERT VISIBLE AT BOTH CLIP AND TOP FACE



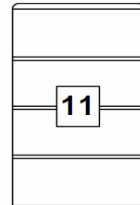
7. SED CAP (SAFE EDGE)



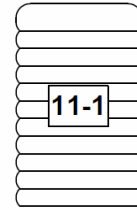
9. FLUTED OUTSIDE DIAMETER



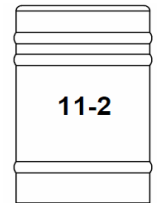
10. TULIP CAP



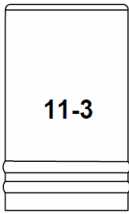
11. 3 GROOVE RING CAP



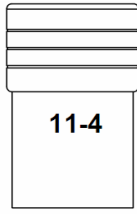
11-1. 11 RING CAP



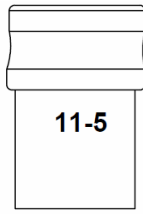
11-2. 3 RING CAP



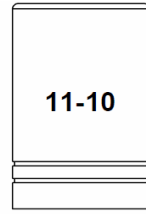
11-3. 2 EXT RING CAP



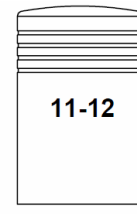
11-4. 3 GROOVE RING TOP HAT CAP



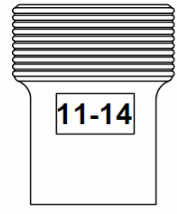
11-5. GROOVED TOP HAT CAP



11-10. 2 GROOVE RING CAP



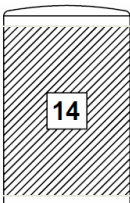
11-12. 4 GROOVE RING CAP



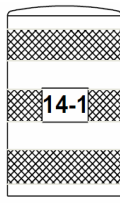
11-14. TOP HAT CAP WITH 10 RINGS



12. CAP WITH DOME FEATURE



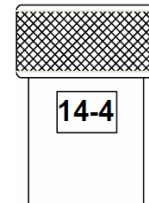
14. DIAGONAL KNURL CAP



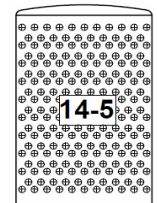
14-1. 3 BAND CROSS KNURL CAP



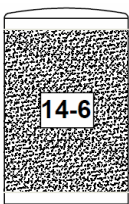
14-2. CROSS KNURLED CAP



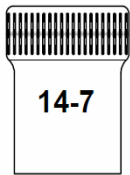
14-4. CROSS KNURLED TOP HAT CAP



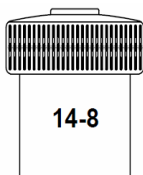
14-5. INDENT KNURL CAP



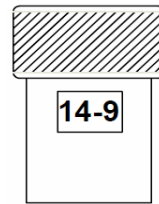
14-6. RANDOM KNURLED CAP



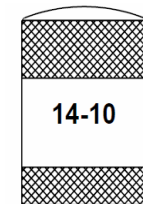
14-7. TOP HAT LINED CAP



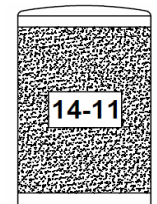
14-8. TOP HAT FLUTED CAP WITH EMBOSSED FACE



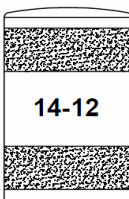
14-9. DIAGONAL KNURLED TOP HAT CAP



14-10. CAP WITH 2 CROSS KNURLED BANDS



14-11. CAP WITH RANDOM KNURLED BAND



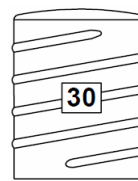
14-12. CAP WITH 2 RANDOM KNURLED BANDS



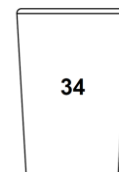
23. STEPPED DIAMETER TOP FACE CAP



25. HORIZONTAL AND VERTICAL GROOVES



30. SCREW CAP



34. TAPERED CAP

## 34

SACOCAT 32

## 35

SACOCAT 32

**Product Group 10**  
**Caps with Screw Inserts**

| Size           | Cap Code         | Insert | Cap O/D   | Height | Style     | Insert and wad type   | Insert colour | Comment             |
|----------------|------------------|--------|-----------|--------|-----------|-----------------------|---------------|---------------------|
| <b>G.C.M.I</b> |                  |        |           |        |           |                       |               |                     |
| 22-410         | 254-27SED        | C2244  | 26.2      | 27     | 1 & 7     | Injection 1.5 EPE Wad | White         |                     |
| 22-410         | 254-27           | C2244  | 26        | 27     | 1         | Injection 1.5 EPE Wad | White         |                     |
| 22-410         | 254-27RKB        | C2244  | 26        | 27     | 14-11     | Injection 1.5 EPE Wad | White         |                     |
| 22-410         | 254-272RKB       | C2244  | 26        | 27     | 14-12     | Injection 1.5 EPE Wad | White         |                     |
| 22-410         | 254-27TH         | C2244  | 26/30     | 27     | 5         | Injection 1.5 EPE Wad | White         |                     |
| 22-410         | 254-27SFT        | C2244  | 26        | 27     | 3         | Injection 1.5 EPE Wad | White         |                     |
| 22-410         | 254-28TH         | C2244  | 26/30     | 28     | 5         | Injection 1.5 EPE Wad | White         |                     |
| 22-410         | 254-28TH10R      | C2244  | 26/30     | 28     | 11-14     | Injection 1.5 EPE Wad | White         |                     |
| 22-410         | 254-28DKTH       | C2244  | 26/30     | 28     | 14-9      | Injection 1.5 EPE Wad | White         |                     |
| 22-410         | 254-28THFLEBF    | C2244  | 26/31     | 28     | 14-8      | Injection 1.5 EPE Wad | White         |                     |
| 22-410         | 254-29THCK       | C2244  | 26/29     | 29     | 14-4      | Injection 1.5 EPE Wad | White         |                     |
| 22-410         | 254-30TH         | C2244  | 26/30     | 30     | 5         | Injection 1.5 EPE Wad | White         |                     |
| 22-410         | 254-314GR        | C2244  | 26        | 31     | 11-12     | Injection 1.5 EPE Wad | White         |                     |
| 22-410         | 254-31FTCK       | C2244  | 26        | 31     | 4 & 14-2  | Injection 1.5 EPE Wad | White         |                     |
| 22-410         | 254-31FT2CK      | C2244  | 26.2      | 31     | 4 & 14-10 | Injection 1.5 EPE Wad | White         |                     |
| 22-410         | 254-31FTSED      | C2244  | 26.2      | 31     | 4 & 7     | Injection 1.5 EPE Wad | White         |                     |
| 22-410         | 254-31FTCKSED    | C2244  | 26.2      | 31     | 4,7&14-2  | Injection 1.5 EPE Wad | White         |                     |
| 22-410         | 254-31FT3CKSED   | C2244  | 26.2      | 31     | 4,7&14-1  | Injection 1.5 EPE Wad | White         |                     |
| 22-410         | 254-32           | C2244  | 26        | 32     | 1         | Injection 1.5 EPE Wad | White         |                     |
| 22-410         | 254-32TH         | C2244  | 26/29     | 32     | 5         | Injection 1.5 EPE Wad | White         |                     |
| 22-410         | 254-33           | C2244  | 26        | 33     | 1         | Injection 1.5 EPE Wad | White         |                     |
| 22-410         | 254-33TH10R      | C2244  | 26/30     | 33     | 11-14     | Injection 1.5 EPE Wad | White         |                     |
| 22-410         | 254-33SFT        | C2244  | 26        | 33     | 3         | Injection 1.5 EPE Wad | White         |                     |
| 22-410         | 254-33FTSED      | C2244  | 26.2      | 33     | 4 & 7     | Injection 1.5 EPE Wad | White         |                     |
| 22-410         | 254-35           | C2244  | 26        | 35     | 1         | Injection 1.5 EPE Wad | White         |                     |
| 22-410         | 254-35TH         | C2244  | 26/30     | 35     | 5         | Injection 1.5 EPE Wad | White         |                     |
| 22-410         | 254-38           | C2244  | 26        | 38     | 1         | Injection 1.5 EPE Wad | White         |                     |
| 22-410         | 254-38DOM        | C2244  | 26        | 38     | 2         | Injection 1.5 EPE Wad | White         |                     |
| 22-410         | 254-38FTCK       | C2244  | 26        | 38     | 4 & 14-2  | Injection 1.5 EPE Wad | White         |                     |
| 22-410         | 254-38FT3CK      | C2244  | 26        | 38     | 4 & 14-1  | Injection 1.5 EPE Wad | White         |                     |
| 22-410         | 254-38FT3R       | C2244  | 26/27.1   | 38     | 11-2      | Injection 1.5 EPE Wad | White         |                     |
| 22-410         | 254-40FT3R       | C2244  | 26/27.1   | 40     | 11-2      | Injection 1.5 EPE Wad | White         |                     |
| 22-410         | 254-40           | C2244  | 26        | 40     | 1         | Injection 1.5 EPE Wad | White         |                     |
| 22-410         | 254-41           | C2244  | 26.7      | 41     | 1         | Injection 1.5 EPE Wad | White         |                     |
| 22-410         | 254-4211R        | C2244  | 26.7      | 42     | 11-1      | Injection 1.5 EPE Wad | White         |                     |
| 22-410         | 254-435          | C2244  | 26.7      | 43.5   | 1         | Injection 1.5 EPE Wad | White         |                     |
| 22-415         | 22415-31         | C2119  | 26.6      | 31     | 1         | Injection 1.5 EPE Wad | Natural       |                     |
| 22-415         | 22415-35         | C2119  | 26.6      | 35     | 1         | Injection 1.5 EPE Wad | Natural       |                     |
| 22-415         | 22415-37         | C2119  | 26.6      | 37     | 1         | Injection 1.5 EPE Wad | Natural       |                     |
| 24-410         | 27-27            | C2463  | 27.8      | 27     | 1         | Injection 1.5 EPE Wad | White         |                     |
| 24-410         | 27-27SED         | C2463  | 28        | 27     | 1 & 7     | Injection 1.5 EPE Wad | White         |                     |
| 24-410         | 27-27FTSED       | C2463  | 28        | 27     | 4 & 7     | Injection 1.5 EPE Wad | White         |                     |
| 24-410         | 27-28            | C2463  | 27.8      | 28     | 1         | Injection 1.5 EPE Wad | White         |                     |
| 24-410         | 27-30            | C2463  | 27.8      | 30     | 1         | Injection 1.5 EPE Wad | White         |                     |
| 24-410         | 27-30            | C2463  | 27.8      | 30     | 1         | Injection 1.5 EPE Wad | White         | Plastic Inset 7mm   |
| 24-410         | 27-30TH          | C2463  | 27.8      | 35     | 6         | Injection 1.5 EPE Wad | White         | Plastic Inset 7mm   |
| 24-410         | 27-35            | C2463  | 27.8      | 35     | 1         | Injection 1.5 EPE Wad | White         |                     |
| 24-410         | <b>27-35TU *</b> | C2463  | 27.9/36.5 | 35     | 10        | Injection 1.5 EPE Wad | White         | <b>* Restricted</b> |
| 24-410         | 27-35TH          | C2463  | 27.8/32   | 35     | 5         | Injection 1.5 EPE Wad | White         |                     |
| 24-415         | 27-28            | C2452  | 27.8      | 27     | 1         | Injection 1.5 EPE Wad | Natural       |                     |
| 24-415         | 27-27SED         | C2452  | 28        | 27     | 1 & 7     | Injection 1.5 EPE Wad | Natural       |                     |
| 24-415         | 27-27FTSED       | C2452  | 28        | 27     | 4 & 7     | Injection 1.5 EPE Wad | Natural       |                     |
| 24-415         | 27-28            | C2452  | 27.8      | 28     | 1         | Injection 1.5 EPE Wad | Natural       |                     |
| 24-415         | 27-30            | C2452  | 27.8      | 30     | 1         | Injection 1.5 EPE Wad | Natural       |                     |
| 24-415         | 27-35            | C2452  | 27.8      | 35     | 1         | Injection 1.5 EPE Wad | Natural       |                     |
| 24-415         | <b>27-35TU *</b> | C2452  | 27.9/36.5 | 35     | 10        | Injection 1.5 EPE Wad | Natural       | <b>* Restricted</b> |
| 24-415         | 27-35TH          | C2452  | 27.8/32   | 35     | 5         | Injection 1.5 EPE Wad | Natural       |                     |
| 24-415         | 35-36FTCK        | C3150  | 35.1      | 36     | 4 & 14-2  | Injection 2.0 EPE Wad | Natural       |                     |
| 28-410         | 28410-22         | C7001  | 31.2      | 22     | 1         | Injection 1.0 EPE Wad | White         |                     |
| 28-410         | 28410-26         | C7001  | 31.2      | 26     | 1         | Injection 1.0 EPE Wad | White         |                     |

**Product Group 10**  
**Caps with Screw Inserts**

| Size          | Cap Code         | Insert | Cap O/D   | Height | Style    | Insert and wad type          | Insert colour | Comment             |
|---------------|------------------|--------|-----------|--------|----------|------------------------------|---------------|---------------------|
| <b>EUROPA</b> |                  |        |           |        |          |                              |               |                     |
| E3            | 146-19           | C3037  | 15.2      | 19     | 1        | Injection 1.5 EPE Wad        | Black         |                     |
| E4            | 15-25            | C2753  | 17.2      | 25     | 1        | Injection 1.5 EPE Wad        | Black         |                     |
| E4            | 15-253GR         | C2753  | 17.2      | 25     | 1 & 11   | Injection 1.5 EPE Wad        | Black         |                     |
| E4            | 15-27            | C2753  | 17.2      | 27     | 1        | Injection 1.5 EPE Wad        | Black         |                     |
| E4            | 15-31            | C2753  | 17.2      | 31     | 1        | Injection 1.5 EPE Wad        | Black         |                     |
| E4            | 15-345           | C2753  | 17.2      | 34.5   | 1        | Injection 1.5 EPE Wad        | Black         |                     |
| E4            | 15-31RIB         | C2753  | 17.7      | 31     | 9 & 12   | Injection 1.5 EPE Wad        | Black         |                     |
| E5            | 22-25            | C2284  | 22.6      | 25     | 1        | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 22-26            | C2284  | 22.6      | 26     | 1        | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 22-31            | C2284  | 22.6      | 31     | 1        | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 22-33            | C2284  | 22.6      | 33     | 1        | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 22-35            | C2284  | 22.6      | 35     | 1        | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 22-37            | C2284  | 22.6      | 37     | 1        | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 22-37DOM         | C2284  | 22.6      | 37     | 2        | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 22-40            | C2284  | 22.6      | 40     | 1        | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 22-43            | C2284  | 22.6      | 43     | 1        | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-28            | C2715  | 23.7      | 28     | 1        | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-28FT3GR       | C2715  | 23.7      | 28     | 4 & 11   | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-30            | C2715  | 23.7      | 30     | 1        | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-30EBSC        | C2715  | 23.9 REF  | 30     | 30       | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-30FT3GR       | C2715  | 23.7      | 30     | 4 & 11   | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-303GR         | C2715  | 23.7      | 30     | 1 & 11   | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-305TH         | C2715  | 23.7/26.8 | 30.5   | 5        | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-31            | C2715  | 23.7      | 31     | 1        | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-31THLN        | C2715  | 23.7/26.7 | 31     | 14-7     | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-32            | C2715  | 23.7      | 32     | 1        | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-32FT3GR       | C2715  | 23.7      | 32     | 4        | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | <b>24-32TU *</b> | C2715  | 24/31.4   | 32     | 10       | Injection PA6 or 1.5 EPE Wad | White         | <b>* Restricted</b> |
| E5            | 24-325           | C2715  | 23.7      | 32.5   | 1        | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-33            | C2715  | 23.7      | 33     | 1        | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-33DOM         | C2715  | 23.7      | 33     | 2        | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-33TH          | C2715  | 23.7/26.7 | 33     | 5        | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-33THCK        | C2715  | 23.7/26.7 | 33     | 14-4     | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-33TH3GR       | C2715  | 23.7/26.8 | 33     | 11-4     | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-332R          | C2715  | 23.7/24.3 | 33     | 1 & 11-3 | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-334GR         | C2715  | 23.7      | 33     | 11-12    | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-34FTSED       | C2715  | 23.9      | 34     | 4 & 7    | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-35            | C2715  | 23.7      | 35     | 1        | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-35EBSC        | C2715  | 23.9 REF  | 35     | 30       | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-35TH          | C2715  | 23.7/26.7 | 35     | 5        | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-35THGR        | C2715  | 23.7/26.7 | 35     | 11-5     | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-35TH3GR       | C2715  | 23.7/26.7 | 35     | 11-4     | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-36FT3R        | C2715  | 23.7/24.3 | 36     | 11-2     | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-37            | C2715  | 23.7      | 37     | 1        | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-37DOM         | C2715  | 23.7      | 37     | 2        | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-38            | C2715  | 23.7      | 38     | 1        | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-39            | C2715  | 23.7      | 39     | 1        | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-39FTSED       | C2715  | 23.9      | 39     | 4 & 7    | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-39FT3R        | C2715  | 23.7/24.3 | 39     | 11-2     | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-40            | C2715  | 23.7      | 40     | 1        | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-40DK          | C2715  | 23.7      | 40     | 14       | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-40DKSED       | C2715  | 23.7      | 40     | 14       | Injection PA6 or 1.5 EPE Wad | White         | <b>MOQ 100K</b>     |
| E5            | 24-40DOM         | C2715  | 23.7      | 40     | 2        | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-40IK          | C2715  | 23.7      | 40     | 14-5     | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-40RK          | C2715  | 23.7      | 40     | 14-6     | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-403CK         | C2715  | 23.7      | 40     | 14-1     | Injection PA6 or 1.5 EPE Wad | White         |                     |
| E5            | 24-404DKSED      | C2715  | 23.9 REF  | 40.45  | 14-1     | Injection PA6 or 1.5 EPE Wad | White         |                     |

37

**Product Group 10**  
**Caps with Screw Inserts**

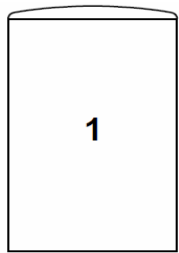
| Size          | Cap Code        | Insert | Cap O/D   | Height | Style     | Insert and wad type          | Insert colour | Comment |
|---------------|-----------------|--------|-----------|--------|-----------|------------------------------|---------------|---------|
| <b>EUROPA</b> |                 |        |           |        |           |                              |               |         |
| E5            | 24-42           | C2715  | 23.7      | 42     | 1         | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 24-422R         | C2715  | 23.7/24.3 | 42     | 1 & 11-3  | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 24-43           | C2715  | 23.7      | 43     | 1         | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 24-43DOM        | C2715  | 23.7      | 43     | 2         | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 24-46           | C2715  | 23.7      | 46     | 1         | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 24-489          | C2715  | 23.7      | 48.9   | 1         | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 24-49           | C2715  | 23.7      | 49     | 1         | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 24-52TU         | C2715  | 24/31.4   | 52     | 10        | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-27          | C2948  | 26        | 27     | 1         | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-27RKB       | C2948  | 26        | 27     | 14-11     | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-272RKB      | C2948  | 26        | 27     | 14-12     | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-27TH        | C2948  | 26/30     | 27     | 5         | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-27SFT       | C2948  | 26        | 27     | 3         | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-27SED       | C2948  | 26.2      | 27     | 1 & 7     | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-272SEDFT2GR | C2948  | 26.2      | 27.2   | 11-10     | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-28TH        | C2948  | 26/30     | 28     | 5         | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-28TH10R     | C2948  | 26/30     | 28     | 11-14     | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-28DKTH      | C2948  | 26/30     | 28     | 14-9      | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-28THFLEBF   | C2948  | 26/31     | 28     | 14-8      | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-29THCK      | C2948  | 26/29     | 29     | 14-4      | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-30TH        | C2948  | 26/30     | 30     | 5         | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-31          | C2948  | 26        | 31     | 1         | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-31FTCK      | C2948  | 26        | 31     | 4 & 14-2  | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-31FT2CK     | C2948  | 26.2      | 31     | 4 & 14-10 | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-314GR       | C2948  | 26        | 31     | 1 & 11    | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-31FTSED     | C2948  | 26.2      | 31     | 4 & 7     | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-31FTCKSED   | C2948  | 26.2      | 31     | 4,7&14-2  | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-31FT3CKSED  | C2948  | 26.2      | 31     | 4,7&14-1  | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-32          | C2948  | 26        | 32     | 1         | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-32TH        | C2948  | 26/29     | 32     | 5         | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-33          | C2948  | 26        | 33     | 1         | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-33TH10R     | C2948  | 30/26     | 33     | 11-14     | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-33SFT       | C2948  | 26        | 33     | 3         | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-33FTSED     | C2948  | 26.2      | 33     | 4 & 7     | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-35          | C2948  | 26        | 34     | 1         | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-35TH        | C2948  | 26/30     | 35     | 5         | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-38          | C2948  | 26        | 38     | 1         | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-38DOM       | C2948  | 26        | 38     | 2         | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-38FTCK      | C2948  | 26        | 38     | 4 & 14-2  | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-38FT3CK     | C2948  | 26        | 38     | 4 & 14-1  | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-38FT3R      | C2948  | 26/27.1   | 38     | 11-2      | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-40FT3R      | C2948  | 26/27.1   | 40     | 11-2      | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-40          | C2948  | 26        | 40     | 1         | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-41          | C2948  | 26.7      | 41     | 1         | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-4211R       | C2948  | 26.7      | 42     | 11-1      | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5            | 254-435         | C2948  | 26.7      | 42     | 1         | Injection PA6 or 1.5 EPE Wad | White         |         |
| E5 spec H     | 22-26           | C2746c | 22.6      | 26     | 1         | Compression1.07 PA6          | White         |         |
| E5 spec H     | 22-31           | C2746c | 22.6      | 31     | 1         | Compression1.07 PA6          | White         |         |
| E5 spec H     | 22-33           | C2746c | 22.6      | 33     | 1         | Compression1.07 PA6          | White         |         |
| E5 spec H     | 22-35           | C2746c | 22.6      | 35     | 1         | Compression1.07 PA6          | White         |         |
| E5 spec H     | 22-37           | C2746c | 22.6      | 37     | 1         | Compression1.07 PA6          | White         |         |
| E5 spec H     | 22-37DOM        | C2746c | 22.6      | 37     | 2         | Compression1.07 PA6          | White         |         |
| E5 spec H     | 22-40           | C2746c | 22.6      | 40     | 1         | Compression1.07 PA6          | White         |         |
| E5 spec H     | 22-43           | C2746c | 22.6      | 43     | 1         | Compression1.07 PA6          | White         |         |
| E6            | 22-26           | C2277c | 22.6      | 26     | 1         | Compression 1.5 EPE Wad      | White         |         |
| E6            | 22-31           | C2277c | 22.6      | 31     | 1         | Compression 1.5 EPE Wad      | White         |         |
| E6            | 22-33           | C2277c | 22.6      | 33     | 1         | Compression 1.5 EPE Wad      | White         |         |
| E6            | 22-35           | C2277c | 22.6      | 35     | 1         | Compression 1.5 EPE Wad      | White         |         |
| E6            | 22-37           | C2277c | 22.6      | 37     | 1         | Compression 1.5 EPE Wad      | White         |         |
| E6            | 22-37DOM        | C2277c | 22.6      | 37     | 2         | Compression 1.5 EPE Wad      | White         |         |
| E6            | 22-40           | C2277c | 22.6      | 40     | 1         | Compression 1.5 EPE Wad      | White         |         |
| E6            | 22-43           | C2277c | 22.6      | 43     | 1         | Compression 1.5 EPE Wad      | White         |         |

38

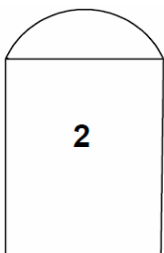
**Product Group 10**  
**Caps with Screw Inserts**

| Size          | Cap Code         | Insert | Cap O/D    | Height | Style     | Insert and wad type   | Insert colour | Comment             |
|---------------|------------------|--------|------------|--------|-----------|-----------------------|---------------|---------------------|
| <b>EUROPA</b> |                  |        |            |        |           |                       |               |                     |
| E6BIS         | 254-30TH         | C2281  | 26/30      | 30     | 5         | Injection 1.5 EPE Wad | Natural       |                     |
| E6BIS         | 254-31           | C2281  | 26         | 31     | 1         | Injection 1.5 EPE Wad | Natural       |                     |
| E6BIS         | 254-314GR        | C2281  | 26         | 31     | 1 & 11    | Injection 1.5 EPE Wad | Natural       |                     |
| E6BIS         | 254-31FTCK       | C2281  | 26         | 31     | 4 & 14-2  | Injection 1.5 EPE Wad | Natural       |                     |
| E6BIS         | 254-31FT2CK      | C2281  | 26         | 31     | 4 & 14-10 | Injection 1.5 EPE Wad | Natural       |                     |
| E6BIS         | 254-31FTSED      | C2281  | 26.2       | 31     | 4 & 7     | Injection 1.5 EPE Wad | Natural       |                     |
| E6BIS         | 254-31FTCKSED    | C2281  | 26.2       | 31     | 4,7&14-2  | Injection 1.5 EPE Wad | Natural       |                     |
| E6BIS         | 254-31FT3CKSED   | C2281  | 26.2       | 31     | 4,7&14-1  | Injection 1.5 EPE Wad | Natural       |                     |
| E6BIS         | 254-32           | C2281  | 26         | 32     | 1         | Injection 1.5 EPE Wad | Natural       |                     |
| E6BIS         | 254-32TH         | C2281  | 26/29      | 32     | 5         | Injection 1.5 EPE Wad | Natural       |                     |
| E6BIS         | 254-33           | C2281  | 26         | 33     | 1         | Injection 1.5 EPE Wad | Natural       |                     |
| E6BIS         | 254-33TH10R      | C2281  | 30/26      | 33     | 11-14     | Injection 1.5 EPE Wad | Natural       |                     |
| E6BIS         | 254-33SFT        | C2281  | 26         | 33     | 3         | Injection 1.5 EPE Wad | Natural       |                     |
| E6BIS         | 254-35TH         | C2281  | 26/30      | 35     | 5         | Injection 1.5 EPE Wad | Natural       |                     |
| E6BIS         | 254-33FTSED      | C2281  | 26.2       | 33     | 4 & 7     | Injection 1.5 EPE Wad | Natural       |                     |
| E6BIS         | 254-38           | C2281  | 26         | 38     | 1         | Injection 1.5 EPE Wad | Natural       |                     |
| E6BIS         | 254-38DOM        | C2281  | 26         | 38     | 2         | Injection 1.5 EPE Wad | Natural       |                     |
| E6BIS         | 254-38FTCK       | C2281  | 26         | 38     | 4 & 14-2  | Injection 1.5 EPE Wad | Natural       |                     |
| E6BIS         | 254-38FT3CK      | C2281  | 26         | 38     | 4 & 14-1  | Injection 1.5 EPE Wad | Natural       |                     |
| E6BIS         | 254-38FT3R       | C2281  | 26/27.1    | 38     | 11-2      | Injection 1.5 EPE Wad | Natural       |                     |
| E6BIS         | 254-40FT3R       | C2281  | 26/27.1    | 40     | 11-2      | Injection 1.5 EPE Wad | Natural       |                     |
| E6BIS         | 254-40           | C2281  | 27         | 40     | 1         | Injection 1.5 EPE Wad | Natural       |                     |
| E6BIS         | 254-41           | C2281  | 26.7       | 41     | 1         | Injection 1.5 EPE Wad | Natural       |                     |
| E6BIS         | 254-4211R        | C2281  | 26.7       | 42     | 11-1      | Injection 1.5 EPE Wad | Natural       |                     |
| E6BIS         | 254-435          | C2281  | 26.7       | 43.5   | 1         | Injection 1.5 EPE Wad | Natural       |                     |
| <b>MISC</b>   |                  |        |            |        |           |                       |               |                     |
| R4 SPECIAL    | 254-35           | C1270  | 26         | 35     | 1         | Injection 1.5 EPE Wad | Black         |                     |
| R4 SPECIAL    | 254-35TH         | C1270  | 26/30      | 35     | 5         | Injection 1.5 EPE Wad | Black         |                     |
| R4 SPECIAL    | 254-38           | C1270  | 26         | 38     | 1         | Injection 1.5 EPE Wad | Black         |                     |
| R4 SPECIAL    | 254-38FT3R       | C1270  | 26/27.1    | 38     | 11-2      | Injection 1.5 EPE Wad | Black         |                     |
| R4 SPECIAL    | 254-38FTCK       | C1270  | 26         | 38     | 4 & 14-2  | Injection 1.5 EPE Wad | Black         |                     |
| R4 SPECIAL    | 254-38FT3CK      | C1270  | 26         | 38     | 4 & 14-1  | Injection 1.5 EPE Wad | Black         |                     |
| R4 SPECIAL    | 254-40           | C1270  | 26         | 40     | 1         | Injection 1.5 EPE Wad | Black         |                     |
| R4 SPECIAL    | 254-40FT3R       | C1270  | 26/27.1    | 40     | 11-2      | Injection 1.5 EPE Wad | Black         |                     |
| R4 SPECIAL    | 254-41           | C1270  | 26.7       | 41     | 1         | Injection 1.5 EPE Wad | Black         |                     |
| R4 SPECIAL    | 254-4211R        | C1270  | 26.7       | 42     | 11-1      | Injection 1.5 EPE Wad | Black         |                     |
| R4 SPECIAL    | 254-435          | C1270  | 26.7       | 43.5   | 1         | Injection 1.5 EPE Wad | Black         |                     |
| R19           | 20-3411R         | C2907c | 22.9       | 34     | 11-1      | Compression 1.07 PA6  | White         |                     |
| GL18 DIN      | 20-24FTSED       | C2613c | 22.3       | 24     | 4         | Compression 1.07 PA6  | White         |                     |
| GL18 DIN      | 20-25            | C2613c | 22.1       | 25     | 1         | Compression 1.07 PA6  | White         |                     |
| GL18 DIN      | 20-26            | C2613c | 22.1       | 26     | 1         | Compression 1.07 PA6  | White         |                     |
| GL18 DIN      | 20-27            | C2613c | 22.1       | 27     | 1         | Compression 1.07 PA6  | White         |                     |
| GL18 DIN      | 20-28            | C2613c | 22.1       | 28     | 1         | Compression 1.07 PA6  | White         |                     |
| GL18 DIN      | <b>20-32TU *</b> | C2613c | 22.3/31.6  | 32     | 10        | Compression 1.07 PA6  | White         | <b>* Restricted</b> |
| GL18 DIN      | 20-33TAPER       | C2613c | 26.2/21.46 | 33.4   | 34        | Compression 1.07 PA6  | White         |                     |
| GL18 DIN      | 20-3411R         | C2613c | 22.9       | 34     | 11-1      | Compression 1.07 PA6  | White         |                     |
| GL18 DIN      | 20-35            | C2613c | 22.1       | 35     | 1         | Compression 1.07 PA6  | White         |                     |
| GL18 DIN      | 20-37            | C2613c | 22.1       | 37     | 1         | Compression 1.07 PA6  | White         |                     |
| GL18 DIN      | 20-37DOM         | C2613c | 22.1       | 37     | 2         | Compression 1.07 PA6  | White         |                     |
| GL18 DIN      | 20-38SESDST      | C2613c | 22.3       | 38     | 7 & 23    | Compression 1.07 PA6  | White         |                     |
| GL18 DIN      | 20-40            | C2613c | 22.1       | 40     | 1         | Compression 1.07 PA6  | White         |                     |
| GL18 DIN      | 20-42            | C2613c | 22.1       | 42     | 1         | Compression 1.07 PA6  | White         |                     |
| GL18 DIN      | 20-45            | C2613c | 22.1       | 45     | 1         | Compression 1.07 PA6  | White         |                     |

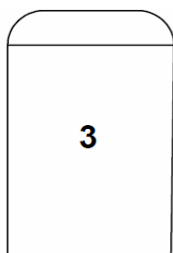
Product Group 11  
Miscellaneous Components



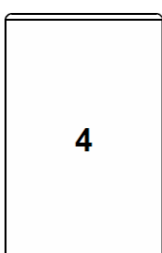
1. STANDARD CAP



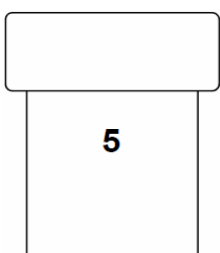
2. DOMED TOP CAP



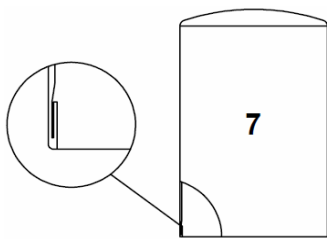
3. SOFT TOP CAP



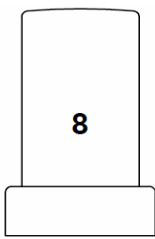
4. FLAT TOP CAP



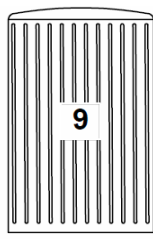
5. TOP HAT CAP



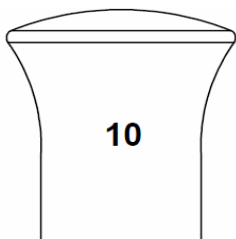
7. SED CAP  
(SAFE EDGE)



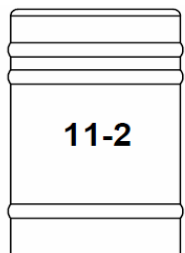
8. STEPPED CAP  
AT OPEN END



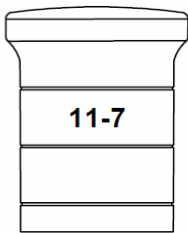
9. FLUTED OUTSIDE  
DIAMETER



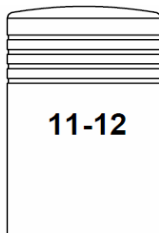
10. TULIP CAP



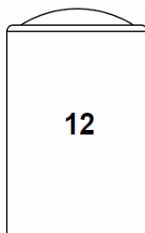
11-2. 3 RING CAP



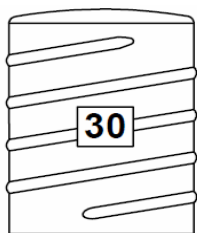
11-7. 3 GROOVE RING  
TOP HAT CAP



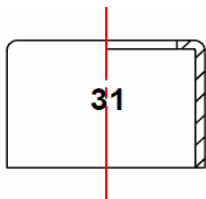
11-12. 4 GROOVE  
RING CAP



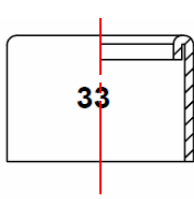
12. CAP WITH  
DOME FEATURE



30. SCREW CAP



31. DROPPER CAP



33. RECURLED  
PIERCE

## 41

41

## 42

SACOCAT 32

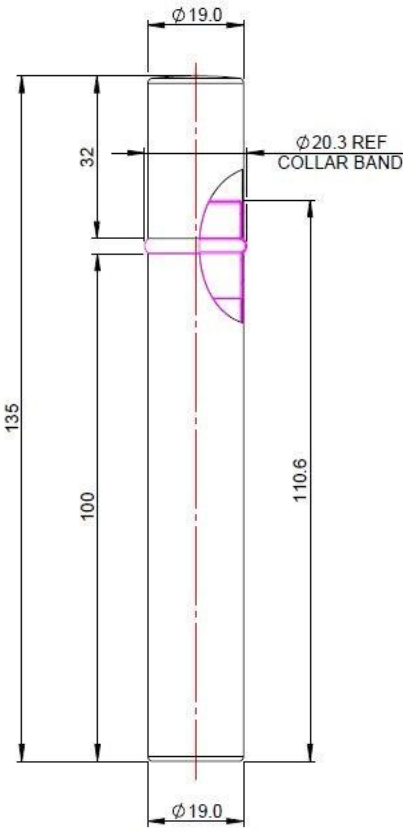
## 43

SACOCAT 32

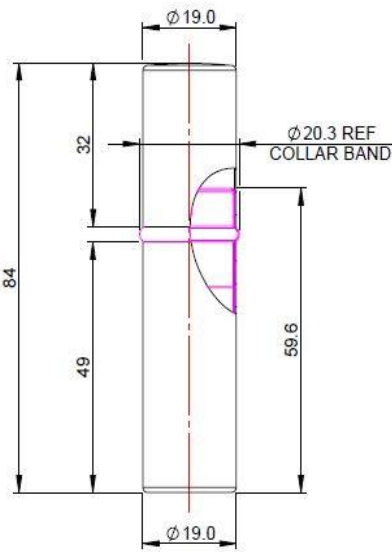
Product Group 13  
Full Service

| Assembly    | Diameter | Height |
|-------------|----------|--------|
| Purse Spray |          |        |
| PSASSY      | 19mm     | 84mm   |
| PSASSY-01   | 19mm     | 135mm  |

Packs are suitable for bottles with 13mm and 15mm Crimped & Crimpless pumps



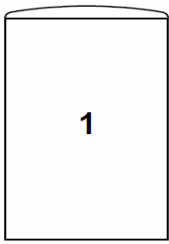
PSASSY-01  
12ml PURSE SPRAY



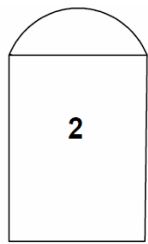
PSASSY  
7ml PURSE SPRAY

**Product Group 14**  
**Pump Manufacturer Specifics**

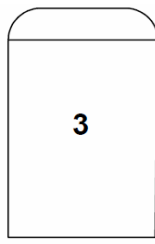
44



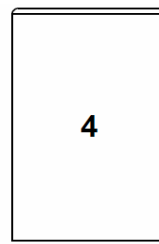
**1. STANDARD CAP**



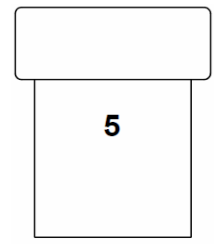
**2. DOMED TOP CAP**



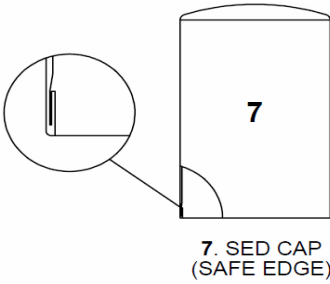
**3. SOFT TOP CAP**



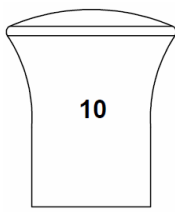
**4. FLAT TOP CAP**



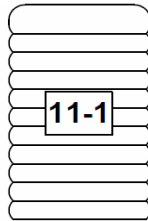
**5. TOP HAT CAP**



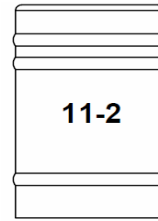
**7. SED CAP  
(SAFE EDGE)**



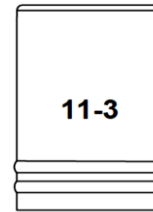
**10. TULIP CAP**



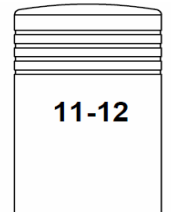
**11-1. 11 RING CAP**



**11-2. 3 RING CAP**



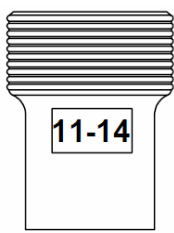
**11-3. 2 EXT RING CAP**



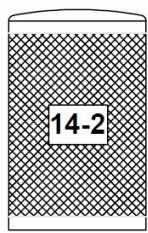
**11-12. 4 GROOVE  
RING CAP**



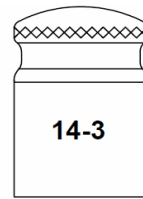
**11-13. 1 GROOVE  
RING CAP**



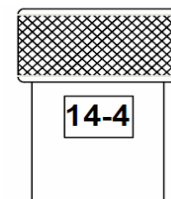
**11-14. TOP HAT CAP  
WITH 10 RINGS**



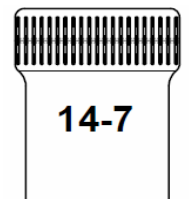
**14-2. CROSS  
KNURLED CAP**



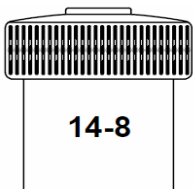
**14-3. CROSS  
KNURLED INTERNALLY  
BEADED CAP**



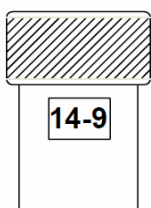
**14-4. CROSS  
KNURLED TOP  
HAT CAP**



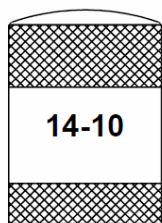
**14-7. TOP HAT  
LINED CAP**



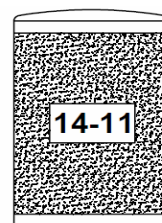
**14-8. TOP HAT  
FLUTED CAP WITH  
EMBOSSED FACE**



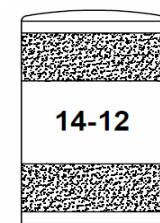
**14-9. DIAGONAL  
KNURLED TOP  
HAT CAP**



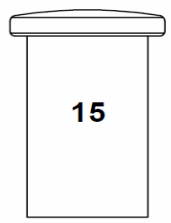
**14-10. CAP WITH 2  
CROSS KNURLED**



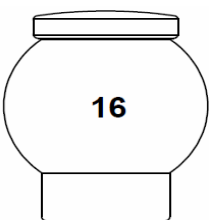
**14-11. CAP WITH  
RANDOM  
KNURLED BAND**



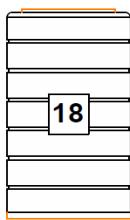
**14-21. CAP WITH  
2 RANDOM  
KNURLED BANDS**



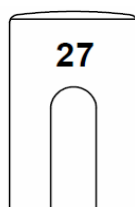
**15. DISC TOP CAP**



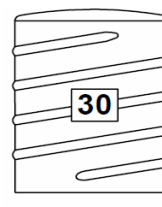
**16. SPHERE CAP**



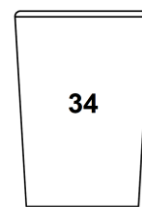
**18. 6 GROOVE CAP  
WITH VISIBLE  
PLASTIC INSERT**



**27. SLOT PROFILE**



**30. SCREW CAP**



**34. TAPERED CAP**

**Product Group 14**  
**Pump Manufacturer Specifics**

**Aptar Specific**

45

| Aptar Product references       | Cap code         | Insert | Height | Cap O/D   | Cap I/D | Fit Dia   | Style     | Comment             |
|--------------------------------|------------------|--------|--------|-----------|---------|-----------|-----------|---------------------|
| 13mm VP32 Seal Tight Pump      | 15415-25         | C2641  | 25     | 18.8      | 18.2    | 15.10     | 1         |                     |
| 13mm VP32 Seal Tight Pump      | 15415-30         | C2641  | 30     | 18.8      | 18.2    | 15.10     | 1         |                     |
| 15mm Eclipse Seal Tight Pump   | 196-21SED        | C3078  | 21     | 20.6      | 19.85   | 17.16     | 1 & 7     |                     |
| 15mm Eclipse Seal Tight Pump   | 196-23           | C3078  | 23     | 20.4      | 19.8    | 17.16     | 1         |                     |
| 15mm Eclipse Seal Tight Pump   | 196-28           | C3078  | 28     | 20.4      | 19.8    | 17.16     | 1         |                     |
| 15mm Eclipse Seal Tight Pump   | 196-28RKB        | C3078  | 28     | 20.4      | 19.85   | 17.16     | 14-11     |                     |
| 15mm Eclipse Seal Tight Pump   | 196-282RKB       | C3078  | 28     | 20.4      | 19.85   | 17.16     | 14 -12    |                     |
| 15mm VP32 Seal Tight Pump      | 196-28           | C3000  | 28     | 20.4      | 19.85   | 17.10 Ref | 1         |                     |
| 15mm VP32 Seal Tight Pump      | 196-31TH         | C2960  | 31     | 20.4/23.5 | 19.85   | 17.10 Ref | 5         |                     |
| 15mm VP32 Seal Tight Pump      | 196-32           | C2960  | 32     | 20.4      | 19.85   | 17.10 Ref | 1         |                     |
| 15mm VP32 Seal Tight Pump      | 196-35           | C2960  | 35     | 20.4      | 19.85   | 17.10 Ref | 1         |                     |
| 15mm VP32 Seal Tight Pump      | 196-35FT3R       | C2960  | 35     | 20.4      | 19.85   | 17.10 Ref | 4 & 11-2  |                     |
| 15mm VP32 Seal Tight Pump      | 196-35SED        | C2960  | 35     | 20.6      | 19.85   | 17.10 Ref | 1 & 7     |                     |
| 15mm VP32 Seal Tight Pump      | 196-35DT         | C2960  | 34.5   | 20.4/25   | 19.85   | 17.10 Ref | 15        |                     |
| 15mm VP32 Seal Tight Pump      | 196-371GR        | C2960  | 37     | 20.4      | 19.85   | 17.10 Ref | 11-13     |                     |
| 15mm VP32 Seal Tight Pump      | SPHERE           | C2960  | 36     | 32        | 19.85   | 17.10 Ref | 16        |                     |
| 15mm VP32 Seal Tight Pump      | 254-27           | C2914  | 27     | 26        | 25.4    | 17.10 Ref | 1         |                     |
| 15mm VP32 Seal Tight Pump      | 254-27RKB        | C2914  | 27     | 26        | 25.4    | 17.10 Ref | 14 -11    |                     |
| 15mm VP32 Seal Tight Pump      | 254-272RKB       | C2914  | 27     | 26        | 25.4    | 17.10 Ref | 14 -12    |                     |
| 15mm VP32 Seal Tight Pump      | 254-27TH         | C2914  | 27     | 26/30     | 25.4    | 17.10 Ref | 5         |                     |
| 15mm VP32 Seal Tight Pump      | 254-28TH10R      | C2914  | 28     | 26/30     | 25.4    | 17.10 Ref |           |                     |
| 15mm VP32 Seal Tight Pump      | 254-28DKTH       | C2914  | 28     | 26/30     | 25.4    | 17.10 Ref | 14-9      |                     |
| 15mm VP32 Seal Tight Pump      | 254-28THFLEBF    | C2914  | 28     | 26/31     | 25.4    | 17.10 Ref | 14-8      |                     |
| 15mm VP32 Seal Tight Pump      | 254-31           | C2914  | 31     | 26        | 25.4    | 17.10 Ref | 1         |                     |
| 15mm VP32 Seal Tight Pump      | 254-314GR        | C2914  | 31     | 26        | 25.4    | 17.10 Ref | 1 & 11    |                     |
| 15mm VP32 Seal Tight Pump      | 254-31FTCK       | C2914  | 31     | 26        | 25.4    | 17.10 Ref | 4 & 14-2  |                     |
| 15mm VP32 Seal Tight Pump      | 254-31FT2CK      | C2914  | 31     | 26.2      | 25.4    | 17.10 Ref | 4 & 14-10 |                     |
| 15mm VP32 Seal Tight Pump      | 254-33SFT        | C2914  | 33     | 26        | 25.4    | 17.10 Ref | 3         |                     |
| 15mm VP32 Seal Tight Pump      | 254-35TH         | C2914  | 35     | 26/30     | 25.4    | 17.10 Ref | 5         |                     |
| 15mm VP32 Seal Tight Pump      | 254-38           | C2914  | 38     | 26        | 25.4    | 17.10 Ref | 1         |                     |
| 15mm VP32 Seal Tight Pump      | 254-38FT3R       | C2914  | 38     | 26        | 25.4    | 17.10 Ref | 4 & 11-2  |                     |
| 15mm VP32 Seal Tight Pump      | 254-40           | C2914  | 40     | 26        | 25.4    | 17.10 Ref | 1         |                     |
| 15mm VP32 Seal Tight Pump      | 254-40FT3R       | C2914  | 40     | 26        | 25.4    | 17.10 Ref | 4 & 11-2  |                     |
| 15mm VP32 Seal Tight Pump      | 254-4211R        | C2914  | 42     | 26.6      | 25.4    | 17.10 Ref | 11-1      |                     |
| 15mm VP32 Seal Tight Pump      | 289-30           | C2898  | 30     | 29.5      | 28.9    | 17.10 Ref | 1         |                     |
| 15mm VP32 Seal Tight Pump      | ROTEX35          | C2918  | 35     | 36.2      | 35.6    | 17.16     | 1         |                     |
| 15mm VP32 Seal Tight Pump      | ROTEX38          | C2918  | 38     | 36.2      | 35.6    | 17.16     | 1         |                     |
| 15mm VP32 Seal Tight Pump      | 2403-6GR30       | C3014  | 30     | 24.8      | 24.0    | 17.16     | 18        |                     |
| VP4/70E4FP4                    | 24-28FT3GR       | C2860  | 28     | 23.7      | 23.1    | 16.9      | 4 & 11    |                     |
| VP4/70E4FP4                    | 24-30FT3GR       | C2860  | 30     | 23.7      | 23.1    | 16.9      | 4 & 11    |                     |
| VP4/70E4FP4                    | 24-303GR         | C2860  | 30     | 23.7      | 23.1    | 16.9      | 1 & 11    |                     |
| VP4/70E4FP4                    | 24-31THLN        | C2860  | 31     | 23.5/26.7 | 23.1    | 16.9      | 14-7      |                     |
| VP4/70E4FP4                    | <b>24-32TU *</b> | C2860  | 32     | 23.7/31   | 23.1    | 16.9      | 10        |                     |
| VP4/70E4FP4                    | 24-33TH          | C2860  | 33     | 23.7/26.6 | 23.1    | 16.9      | 5         | * Restricted Finish |
| VP4/70E4FP4                    | 24-33THCK        | C2860  | 33     | 23.7/26.6 | 23.1    | 16.9      | 14-4      |                     |
| VP4/70E4FP4                    | 24-46RND         | C2860  | 46     | 23.7      | 23.1    | 16.9      | 1         |                     |
| VP4/70E4FP4                    | 24-422R          | C2860  | 42     | 23.7      | 23.1    | 16.9      | 1 & 11-3  |                     |
| VP4/7015mm with collar         | 24-28            | C2771  | 28     | 23.7      | 23.1    | 17.33     | 1         |                     |
| VP4/7015mm with collar         | 24-28FT3GR       | C2771  | 28     | 23.7      | 23.1    | 17.33     | 4 & 11    |                     |
| VP4/7015mm with collar         | 24-30EBSC        | C2771  | 30     | 23.9 REF  | 23.1    | 17.33     | 30        |                     |
| VP4/7015mm with collar         | 24-303GR         | C2771  | 30     | 23.7      | 23.1    | 17.33     | 1 & 11    |                     |
| VP4/7015mm with collar         | <b>24-32TU *</b> | C2771  | 32     | 23.7/31   | 23.1    | 17.33     | 10        |                     |
| VP4/7015mm with collar         | 24-334GR         | C2771  | 33     | 23.7      | 23.1    | 17.33     | 11-12     | * Restricted Finish |
| VP4/7015mm with collar         | 24-33TH          | C2771  | 33     | 23.7/26.6 | 23.1    | 17.33     | 5         |                     |
| VP4/7015mm with collar         | 24-31THCK        | C2771  | 31     | 23.7/26.6 | 23.1    | 17.33     | 14-4      |                     |
| VP4/7015mm with collar         | 24-31THLN        | C2771  | 31     | 23.5/26.7 | 23.1    | 17.33     | 14-7      |                     |
| VP4/7015mm with collar         | 24-33THCK        | C2771  | 33     | 23.7/26.6 | 23.1    | 17.33     | 14-4      |                     |
| VP4/7015mm with collar         | 24-35TH3GR       | C2771  | 35     | 23.7/26.6 | 23.1    | 17.33     | 11-4      |                     |
| VP4/7015mm with collar         | 24-35EBSC        | C2771  | 35     | 23.9 REF  | 23.1    | 17.33     | 30        |                     |
| VP4/7015mm with collar         | 24-40            | C2771  | 40     | 23.7      | 23.1    | 17.33     | 1         |                     |
| VP4/7015mm with collar         | 24-422R          | C2771  | 42     | 23.7      | 23.1    | 17.33     | 1 & 11-3  |                     |
| VP4/70 Pump 772 Actuator cover | 152-14FTTRI      | None   | 14     | 15.8      | 15.2    | 14.9      | 4         |                     |
| VP4/70 Actuator cover          | 132-139FTTRI     | None   | 13.9   | 13.8      | 13.2    | 12.91     | 4         |                     |
| VP4/70 Actuator cover          | 132-158FTTRI     | None   | 15.8   | 13.8      | 13.2    | 12.91     | 4         |                     |
| VP3                            | VP3-393FTTRI     | None   | 39.3   | 17.8      | 17.2    | 16.7      | 1         |                     |
| VP3 E4 Metal clad              | 18-39            | C2350  | 39     | 19.1      | 18.5    | 16.8      | 1         |                     |
| VP3 E5 Metal clad              | 24-46            | C2584  | 46     | 23.7      | 23.1    | 19.95     | 1         |                     |
| VP3 E5 Metal clad              | 24-422R          | C2584  | 42     | 23.7      | 23.1    | 19.95     | 1 & 11-3  |                     |
| VP3CV15 Metal clad             | VP3-28TRI        | None   | 28     | 17.8      | 17.2    | 16.75     | 1         |                     |
| Snap on Replica pump ST 10.6   | 125-22TRI        | None   | 22     | 13.6      | 12.5    | 12.15     | 1         |                     |
| Replica pump with shroud       | 133-366TRI       | None   | 36.6   | 13.9      | 13.3    | 12.8      | 1         |                     |

**Note. For other caps for standard FEA**

**Aptar Specific**

## 46

46

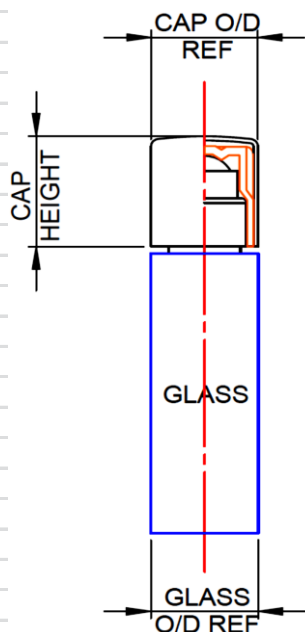
## Silgan Specific

**Note. For other caps for standard FEA  
crimped pumps and shrouds see  
Product groups 1 & 2**

**Product Group 15**  
**Specific Function Caps**

48

**10ml Roller ball cap assembly**



**Cap code**

**Insert**

**Height**

**Cap O/D**

**Style**

132-25SED

C3215

25

14

1

16-25

C7005

25

16.7

1

18-275

C2984

27.5

19

1

18-275SED

C2984

27.5

19.2

1 & 7

Injection  
Natural

**Note:**

Cap designed for Form Grinders ball Ref FG2103  
and Housing Ref FG2104

Typical bottles I.B.C 10ml Rollette  
Stoelzle Oberglas 10ml Roll On

**Aluminium can cap assembly**

For use on Nussbaum & Guhl 20-410  
neck finish can with sifter plug

**Cap code**

226-3411R

**Insert**

C2980  
Injection  
White

**Height**

34

**Cap O/D**

24.1

**Style**

11-1

**Dropper cap assembly**

20-410 insert with 12.3 diameter hole

**Cap code**

SRD24-145P14

**Insert**

C3270

**Height**

14.5

**Cap O/D**

23.7

**Style**

31

20-415 White insert with 12.3 diameter hole

20415-21FTSEDP124

C3023

21

24.3

4 & 7

20-415 Whinter insert with 17.05 diameter hole and wad

24410-197P17NS1

C3200

19.7

22

4

DIN 168 GL18 Dropper Cap V Dropper

20-19FT (Inset 3.5mm)

C7003

19

22

31

DIN 168 GL18 Dropper Cap Pipette

20-19P122FT (Inset 5mm)

C7004

19

22

4

DIN 168 GL18 Cap

20-19FT (Inset 3.5mm)

C7006

19

22

31

**Diffuser cap assembly**

24-410 clear insert with 17mm diameter hole

24410-197P17

C3200

19.7

27.8

31

28-410 Natural/white insert with 20mm diameter hole

312-21P20

C3220

21

31.8

31

35-29P20

N/A

29

34.3

31

**Diffuser cap with WAD**

312-21P20C3220WADDED

**Cap code**

312-21P20

**Insert**

C3220

**Height**

21

**Cap O/D**

31.8

**Style**

31

**Disc top cap assembly**

24-410 Clear or white insert

**Cap code**

24-410DT

**Insert**

CP1020

**Height**

28

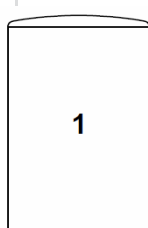
**Cap O/D**

28

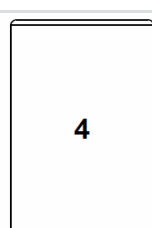
**Style**

26

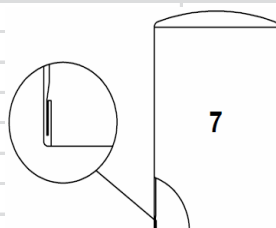
**Cap Styles:**



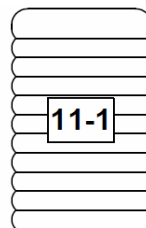
1. STANDARD CAP



4. FLAT TOP CAP



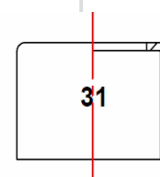
7. SED CAP  
(SAFE EDGE)



11-1. 11 RING CAP



26. DISC TOP  
DISPENSER CAP



31. DROPPER CAP

## 49

49

## 50

SACOCAT 32