



CELLON
Recommended cap torque specifications for PharmaTainer™ closures

Recommended torque specifications to be applied to ensure a seal between the PharmaTainer™ bottle and closure in non-freezing applications and freezing applications (i.e. 0°C to -80°C) for PharmaTainer™ closures.

Resin	Catalogue number	Description	Non-freezing applications			Freezing applications		
			Maximum torque (Nm)	Nominal torque (Nm)	Minimum torque (Nm)	Maximum torque (Nm)	Nominal torque (Nm)	Minimum torque (Nm)
HDPE	3048C-01	48mm Cap PC & PET PharmaTainer™	10	5	4	10	8	7
HDPE	3070C1-01	70mm Cap PET PharmaTainer™	10	5	4	10	8	7
HDPE	3070C2-01	70mm Cap PC PharmaTainer™	10	5	4	10	8	7
PP	4048C-01	48mm Cap PC PharmaTainer™	10	8	7	N/A	N/A	N/A
PP	4048CP2-50	48mm 2-Port Cap PC & PET PharmaTainer™	10	6	5	N/A	N/A	N/A
PP	4048CP3-50	48mm 3-Port Cap PC & PET PharmaTainer™	10	6	5	N/A	N/A	N/A
PP	4070CP2-50	70mm 2-Port Cap PC & PET PharmaTainer™	10	PET:8 PC: 9	PET:7 PC:8	N/A	N/A	N/A
PP	4070CP3-50	70mm 3-Port Cap PC & PET PharmaTainer™	10	PET:8 PC:9	PET:7 PC:8	N/A	N/A	N/A
PP	4070CP4-50	70mm 4-Port Cap PC & PET PharmaTainer™	10	PET:8 PC:9	PET:7 PC:8	N/A	N/A	N/A

The specifications mentioned above were tested and validated during the following tests:

- PharmaTainer™ Torque Tests
- PharmaTainer™ positive gas pressure test during a freeze thaw cycle

Certified by: 
 Managing Director

Date: 24/02/2014
 (DD.MM.YYYY)