

# **MODUS** Flash Columns

**P SERIES**



- *Enhanced resolution and high load capacity*
- *Pre-Packed with Irregular Silica or Spherical Silica for improved performance without increasing back pressure*
- *Available in a variety of sizes*
- *Max operating pressure of up to 400psi due to unique cartridge body*
- *Luer® Lok end fitting for universal compatibility*



## P-Series™ (Premium)

**MODUS P-Series flash columns feature spin-welded heads and extra thick walls designed to withstand a higher pressure of up to 400psi guaranteed leak free. Featuring colour coded caps the enhanced product (irregular, 25-40  $\mu\text{m}$ , 60  $\text{\AA}$ ; spherical, 20-45 $\mu\text{m}$ , 70  $\text{\AA}$ ) returns outstanding resolution when compared to conventional flash cartridges. Available with a universal adapter making them compatible with any flash system on the market, P-Series also features Luer-Lok end fittings flexibility for convenient column stacking.**



Chromatography Direct MODUS columns are an excellent alternative to other flash columns available offering fast, easy purification and scale-up.

### **Resolution and Reproducibility**

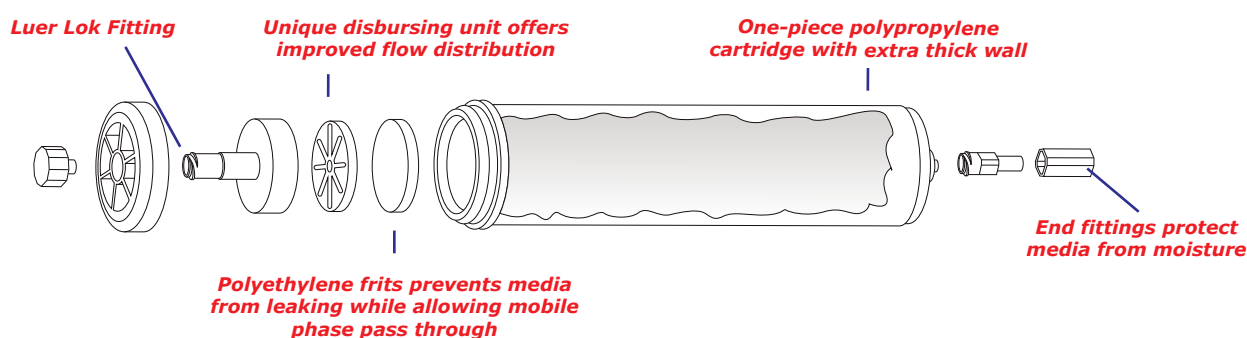
MODUS P-Series (Premium Series) cartridges are manufactured using an innovative dry packing technique resulting in higher resolution and reproducibility. Featuring the industry standard Luer®-Lok end fitting, MODUS P-Series allow for quick, easy connection to most flash chromatography systems including ISCO, Biotage, Yamazen, Teledyne ISCO, Analogix (Varian), Interchim, Grace, Armen and BUCHI. All MODUS columns and media pass through rigorous QC testing which has resulted in an industry leading quality consistency of media for over 10 years.

### **Wide Range of Sizes**

Chromatography Direct MODUS P-Series columns are optimised for purification from 4mg to 99 grams. The enhanced product design with high-efficiency silica gel (spherical 20-45 $\mu\text{m}$ , 70 $\text{\AA}$ ) provides outstanding performance without increasing backpressure.

### **Extra Thick Reinforced Cartridge Body**

All Chromatography Direct MODUS P-Series columns feature an extra thick reinforced cartridge body and Spin-welded heads enabling our columns to withstand the pressure of modern flash systems.



## Ultra-Pure Irregular/Spherical Silica

### Ultra-pure irregular silica, 40-63 $\mu\text{m}$ , 60 $\text{\AA}$

(surface area 500 m<sup>2</sup>/g, pH 6.5-7.5, loading capacity 0.1-10%)

Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max Pressure (psi/bar)	Pack Size	Part No.	List £
4g	4mg-0.4g	15-40	113.8	12.4	400/27.5	20	MOD-FC-CDP-SI-1-4-20	65.00
12g	12mg-1.2g	30-60	134.8	21.4	400/27.5	18	MOD-FC-CDP-SI-1-12-18	78.00
25g	25mg-2.5g	30-60	184	21.4	400/27.5	12	MOD-FC-CDP-SI-1-25-12	67.00
40g	40mg-4.0g	40-70	184.4	26.7	400/27.5	12	MOD-FC-CDP-SI-1-40-12	89.00
80g	80mg-8.0g	50-100	257.4	31.2	350/24.0	10	MOD-FC-CDP-SI-1-80-10	159.00
120g	120mg-12g	60-150	261.5	38.6	300/20.7	10	MOD-FC-CDP-SI-1-120-10	201.00
220g	220mg-22g	80-220	223.5	61.4	300/20.7	6	MOD-FC-CDP-SI-1-220-6	182.00
330g	330mg-33g	80-220	280.2	61.4	250/17.2	5	MOD-FC-CDP-SI-1-330-5	193.00

### Ultra-pure spherical silica, 40-75 $\mu\text{m}$ , 70 $\text{\AA}$

(surface area 500 m<sup>2</sup>/g, pH 6.0-8.0, loading capacity 0.1-10%)

Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max Pressure (psi/bar)	Pack Size	Part No.	List £
4g	4mg-0.4g	15-40	113.8	12.4	400/27.5	20	MOD-FC-CDP-SI-4-4-20	89.00
12g	12mg-1.2g	30-60	134.8	21.4	400/27.5	18	MOD-FC-CDP-SI-4-12-18	135.00
25g	25mg-2.5g	30-60	184	21.4	400/27.5	12	MOD-FC-CDP-SI-4-25-12	140.00
40g	40mg-4.0g	40-70	184.4	26.7	400/27.5	12	MOD-FC-CDP-SI-4-40-12	202.00
80g	80mg-8.0g	50-100	257.4	31.2	350/24.0	10	MOD-FC-CDP-SI-4-80-10	353.00
120g	120mg-12g	60-150	261.5	38.6	300/20.7	10	MOD-FC-CDP-SI-4-120-10	492.00
220g	220mg-22g	80-220	223.5	61.4	300/20.7	6	MOD-FC-CDP-SI-4-220-6	528.00
330g	330mg-33g	80-220	280.2	61.4	250/17.2	5	MOD-FC-CDP-SI-4-330-5	623.00



## High-Efficiency Irregular/Spherical Silica

**High-efficiency irregular silica, 25-40  $\mu\text{m}$ , 60  $\text{\AA}$**   
 (surface area 500 m<sup>2</sup>/g, pH 6.5-7.5, loading capacity 0.1-15%)

Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max Pressure (psi/bar)	Pack Size	Part No.	List $\pounds$
4g	4mg-0.6g	15-30	113.8	12.4	400/27.5	20	MOD-FC-CDP-SI-2-4-20	99.00
12g	12mg-1.8g	25-50	134.8	21.4	400/27.5	18	MOD-FC-CDP-SI-2-12-18	135.00
25g	25mg-3.8g	25-50	184	21.4	400/27.5	12	MOD-FC-CDP-SI-2-25-12	127.00
40g	40mg-6.0g	30-60	184.4	26.7	400/27.5	12	MOD-FC-CDP-SI-2-40-12	175.00
80g	80mg-12g	40-80	257.4	31.2	350/24.0	10	MOD-FC-CDP-SI-2-80-10	296.00
120g	120mg-18g	60-100	261.5	38.6	300/20.7	10	MOD-FC-CDP-SI-2-120-10	389.00
220g	220mg-33g	80-160	223.5	61.4	300/20.7	6	MOD-FC-CDP-SI-2-220-6	395.00
330g	330mg-50g	80-160	280.2	61.4	250/17.2	5	MOD-FC-CDP-SI-2-330-5	449.00

**High-efficiency spherical silica, 20-45  $\mu\text{m}$ , 70  $\text{\AA}$**   
 (surface area 500 m<sup>2</sup>/g, pH 6.0-8.0, loading capacity 0.1-15%)

Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max Pressure (psi/bar)	Pack Size	Part No.	List $\pounds$
4g	4mg-0.6g	15-30	113.8	12.4	400/27.5	20	MOD-FC-CDP-SI-5-4-20	165.00
12g	12mg-1.8g	25-50	134.8	21.4	400/27.5	18	MOD-FC-CDP-SI-5-12-18	215.00
25g	25mg-3.8g	25-50	184	21.4	400/27.5	12	MOD-FC-CDP-SI-5-25-12	221.00
40g	40mg-6.0g	30-60	184.4	26.7	400/27.5	12	MOD-FC-CDP-SI-5-40-12	295.00
80g	80mg-12g	40-80	257.4	31.2	350/24.0	10	MOD-FC-CDP-SI-5-80-10	384.00
120g	120mg-18g	60-100	261.5	38.6	300/20.7	10	MOD-FC-CDP-SI-5-120-10	526.00
220g	220mg-33g	80-160	223.5	61.4	300/20.7	6	MOD-FC-CDP-SI-5-220-6	560.00
330g	330mg-50g	80-160	280.2	61.4	250/17.2	5	MOD-FC-CDP-SI-5-330-5	741.00

## DID YOU KNOW?

For spherical silica gel, strict controls from raw materials to finished product ensure high lot-to-lot reproducibility and tightly controlled specifications.

## High-Quality Irregular Silica

High-quality irregular silica, 40-63  $\mu\text{m}$ , 60 Å

(surface area 500 m<sup>2</sup>/g, pH 6.5-7.5, loading capacity 0.1-10%)

Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max Pressure (psi/bar)	Pack Size	Part No.	List £
4g	4mg-0.4g	15-40	113.8	12.4	400/27.5	20	MOD-FC-CDP-SI-3-4-20	64.00
12g	12mg-1.2g	30-60	134.8	21.4	400/27.5	18	MOD-FC-CDP-SI-3-12-18	76.00
25g	25mg-2.5g	30-60	184	21.4	400/27.5	12	MOD-FC-CDP-SI-3-25-12	64.00
40g	40mg-4.0g	40-70	184.4	26.7	400/27.5	12	MOD-FC-CDP-SI-3-40-12	85.00
80g	80mg-8.0g	50-100	257.4	31.2	350/24.0	10	MOD-FC-CDP-SI-3-80-10	151.00
120g	120mg-12g	60-150	261.5	38.6	300/20.7	10	MOD-FC-CDP-SI-3-120-10	189.00
220g	220mg-22g	80-220	223.5	61.4	300/20.7	6	MOD-FC-CDP-SI-3-220-6	168.00
330g	330mg-33g	80-220	280.2	61.4	250/17.2	5	MOD-FC-CDP-SI-3-330-5	176.00

**100%** compatible with  
all major flash chromatography systems



## High-Capacity Spherical Silica

### High-capacity spherical silica, 15 $\mu\text{m}$ , 50 $\text{\AA}$

(surface area 700  $\text{m}^2/\text{g}$ , pH 6.5+-1.5, loading capacity 0.1-30%)

Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max Pressure (psi/bar)	Pack Size	Part No.	List £
4g	4mg-1.2g	15-30	113.8	12.4	400/27.5	20	MOD-FC-CDP-SI-6-4-20-H	127.00
12g	12mg-3.6g	25-50	134.8	21.4	400/27.5	18	MOD-FC-CDP-SI-6-12-18-H	252.00
25g	25mg-7.5g	25-50	184	21.4	400/27.5	12	MOD-FC-CDP-SI-6-25-12-H	275.00
40g	40mg-12g	30-60	184.4	26.7	400/27.5	12	MOD-FC-CDP-SI-6-40-12-H	388.00
80g	80mg-24g	40-80	257.4	31.2	350/24.0	10	MOD-CF-CDP-SI-6-80-10-H	701.00
120g	120mg-36g	45-90	261.5	38.6	300/20.7	10	MOD-FC-CDP-SI-6-120-10-H	984.00
220g	220mg-66g	60-120	223.5	61.4	300/20.7	6	MOD-FC-CDP-SI-6-220-6-H	1055.00
330g	330mg-99g	60-120	280.2	61.4	250/17.2	5	MOD-FC-CDP-SI-6-330-5-H	1344.00

### High-capacity spherical silica, 25 $\mu\text{m}$ , 50 $\text{\AA}$

(surface area 700  $\text{m}^2/\text{g}$ , pH 6.5+-1.5, loading capacity 0.1-30%)

Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max Pressure (psi/bar)	Pack Size	Part No.	List £
4g	4mg-1.2g	15-30	113.8	12.4	400/27.5	20	MOD-FC-CDP-SI-5-4-20-H	120.00
12g	12mg-3.6g	25-50	134.8	21.4	400/27.5	18	MOD-FC-CDP-SI-5-12-18-H	190.00
25g	25mg-7.5g	25-50	184	21.4	400/27.5	12	MOD-FC-CDP-SI-5-25-12-H	194.00
40g	40mg-12g	30-60	184.4	26.7	400/27.5	12	MOD-FC-CDP-SI-5-40-12-H	273.00
80g	80mg-24g	40-80	257.4	31.2	350/24.0	10	MOD-FC-CDP-SI-5-80-10-H	471.00
120g	120mg-36g	45-90	261.5	38.6	300/20.7	10	MOD-FC-CDP-SI-5-120-10-H	636.00
220g	220mg-66g	60-120	223.5	61.4	300/20.7	6	MOD-FC-CDP-SI-5-220-6-H	647.00
330g	330mg-99g	60-120	280.2	61.4	250/17.2	5	MOD-FC-CDP-SI-330-5-H	812.00

### High-capacity spherical silica, 50 $\mu\text{m}$ , 54 $\text{\AA}$

(surface area 680  $\text{m}^2/\text{g}$ , pH 7.0+-1.0, loading capacity 0.1-20%)

Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max Pressure (psi/bar)	Pack Size	Part No.	List £
4g	4mg-0.8g	15-40	113.8	12.4	400/27.5	20	MOD-FC-CDP-SI-4-4-20-H	94.00
12g	12mg-2.4g	30-60	134.8	21.4	400/27.5	18	MOD-FC-CDP-SI-4-12-18-H	147.00
25g	25mg-5.0g	30-60	184	21.4	400/27.5	12	MOD-FC-CDP-SI-4-25-12-H	154.00
40g	40mg-8.0g	40-70	184.4	26.7	400/27.5	12	MOD-FC-CDP-SI-4-40-12-H	223.00
80g	80mg-16g	50-100	257.4	31.2	350/24.0	10	MOD-FC-CDP-SI-4-80-10-H	399.00
120g	120mg-24g	60-150	261.5	38.6	300/20.7	10	MOD-FC-CDP-SI-4-120-10-H	561.00
220g	220mg-44g	80-220	223.5	61.4	300/20.7	6	MOD-FC-CDP-SI-4-220-6-H	600.00
330g	330mg-66g	80-220	280.2	61.4	250/17.2	5	MOD-FC-CDP-SI-4-330-5-H	713.00



## High-Quality Alumina

### High-quality acidic alumina, 50 µm, 55 Å

(pH 3.8-4.8, loading capacity 01.-4%)

Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max Pressure (psi/bar)	Pack Size	Part No.	List £
8g	8mg-0.32g	10-30	113.8	12.4	400/27.5	20	MOD-FC-CDP-AAL-8-20	104.00
24g	24mg-1.0g	15-45	134.8	21.4	400/27.5	18	MOD-FC-CDP-AAL-24-18	138.00
50g	50mg-2.0g	15-45	184	21.4	400/27.5	12	MOD-FC-CDP-AAL-50-12	122.00
80g	80mg-3.2g	20-50	184.4	26.7	400/27.5	12	MOD-FC-CDP-AAL-80-12	166.00
160g	160mg-6.4g	30-70	257.4	31.2	350/24.0	10	MOD-FC-CDP-AAL-160-10	278.00
240g	240mg-9.6g	40-80	261.5	38.6	300/20.7	10	MOD-FC-CDP-AAL-240-10	358.00
440g	440mg-17.6g	50-120	223.5	61.4	300/20.7	6	MOD-FC-CDP-AAL-440-6	355.00
660g	660mg-26.4g	50-120	280.2	61.4	250/17.2	5	MOD-FC-CDP-AAL-660-5	386.00

### High-quality neutral alumina, 50-75 µm, 55 Å

(pH 6.5-7.5, loading capacity 0.1-4%)

Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max Pressure (psi/bar)	Pack Size	Part No.	List £
8g	8mg-0.32g	10-30	113.8	12.4	400/27.5	20	MOD-FC-CDP-AL-8-20	90.00
24g	24mg-1.0g	15-45	134.8	21.4	400/27.5	18	MOD-FC-CDP-AL-24-18	118.00
50g	50mg-2.0g	15-45	184	21.4	400/27.5	12	MOD-FC-CDP-AL-50-12	103.00
80g	80mg-3.2g	20-50	184.4	26.7	400/27.5	12	MOD-FC-CDP-AL-80-12	140.00
160g	160mg-6.4g	30-70	257.4	31.2	350/24.0	10	MOD-FC-CDP-AL-160-10	234.00
240g	240mg-9.6g	40-80	261.5	38.6	300/20.7	10	MOD-FC-CDP-AL-240-10	300.00
440g	440mg-17.6g	50-120	223.5	61.4	300/20.7	6	MOD-FC-CDP-AL-440-6	295.00
660g	660mg-26.4g	50-120	280.2	61.4	250/17.2	5	MOD-FC-CDP-AL-660-5	319.00

### High-quality basic alumina, 50-75 µm, 55 Å

(pH 9.0-10.0, loading capacity 0.1-4%)

Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max Pressure (psi/bar)	Pack Size	Part No.	List £
8g	8mg-0.32g	10-30	113.8	12.4	400/27.5	20	MOD-FC-CDP-BAL-8-20	90.00
24g	24mg-1.0g	15-45	134.8	21.4	400/27.5	18	MOD-FC-CDP-BAL-24-18	118.00
50g	50mg-2.0g	15-45	184	21.4	400/27.5	12	MOD-FC-CDP-BAL-50-12	103.00
80g	80mg-3.2g	20-50	184.4	26.7	400/27.5	12	MOD-FC-CDP-BAL-80-12	140.00
160g	160mg-6.4g	30-70	257.4	31.2	350/24.0	10	MOD-FC-CDP-BAL-160-10	234.00
240g	240mg-9.6g	40-80	261.5	38.6	300/20.7	10	MOD-FC-CDP-BAL-240-10	300.00
440g	440mg-17.6g	50-120	223.5	61.4	300/20.7	6	MOD-FC-CDP-BAL-440-6	295.00
660g	660mg-26.4g	50-120	280.2	61.4	250/17.2	5	MOD-FC-CDP-BAL-660-5	319.00

## P-Series Bonded

**Bonded series flash columns are manufactured with the same cartridges as the P-Series but are packed with ultra-pure, high-quality, high-efficiency bonded silica. This series offers a wide variety of sorbents to better satisfy the requirements for different users.**

- Available in a wide variety of specifications
- Improved pressure rate up to 400 psi
- Re-usability: 20 times (average)
- Economical substitute for preparative HPLC

### **MODUS** **BONDED**

Irregular Family	Irregular C18, 40-63 µm, 60Å
	Irregular C18, 40-63 µm, 90Å
	Irregular NH <sub>2</sub> , 40-63 µm, 60Å
Hemispherical Family	Hemispherical C18, 50 µm, 90Å
Spherical Family	Spherical C18, 40-60 µm, 120Å
	Spherical C18, 30-50 µm, 120Å
	Spherical C18, 40-75 µm, 100Å
	Spherical C18, 20-45 µm, 100Å
	Spherical C18, 15 µm, 100Å
	Spherical CN, 20-45 µm, 100Å
	Spherical C4, 20-45 µm, 100Å
	Spherical C8, 20-45 µm, 100Å
Spherical Diol, 20-45 µm, 100Å	



## Ultra-Pure Irregular C18

### Ultra-pure irregular C18, 40-63 $\mu\text{m}$ , 60 $\text{\AA}$

(carbon content 17%, end-capped, surface area 500 m<sup>2</sup>/g, loading capacity 0.1-2%)

Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max Pressure (psi/bar)	Pack Size	Part No.	List £
5.9g	5.9mg-118mg	10-20	113.8	12.4	400/27.5	2	MOD-FC-CDP-C18-6-59-2	44.00
23g	23mg-0.46g	15-30	134.8	21.4	400/27.5	1	MOD-FC-CDP-C18-6-23-1	63.00
38g	38mg-0.76g	15-30	184	21.4	400/27.5	1	MOD-FC-CDP-C18-6-38-1	102.00
55g	55mg-1.1g	20-40	184.4	26.7	400/27.5	1	MOD-FC-CDP-C18-6-55-1	160.00
122g	122mg-2.5g	30-60	257.4	31.2	350/24.0	1	MOD-FC-CDP-C18-6-122-1	356.00
180g	180mg-3.6g	40-80	261.5	38.6	300/20.7	1	MOD-FC-CDP-C18-6-180-1	514.00
340g	340mg-6.8g	50-100	223.5	61.4	300/20.7	1	MOD-FC-CDP-C18-6-340-1	977.00
475g	475mg-9.5g	50-100	280.2	61.4	250/17.2	1	MOD-FC-CDP-C18-6-475-1	1375.00

### Ultra-pure irregular C18, 40-63 $\mu\text{m}$ , 90 $\text{\AA}$

(carbon content 15%, end-capped, surface area 400 m<sup>2</sup>/g, loading capacity 0.1-2%)

Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max Pressure (psi/bar)	Pack Size	Part No.	List £
5.2g	5.2mg-104mg	10-20	113.8	12.4	400/27.5	2	MOD-FC-CDP-C18-7-52-2	41.00
20g	20mg-0.40g	15-30	134.8	21.4	400/27.5	1	MOD-FC-CDP-C18-7-20-1	58.00
33g	33mg-0.66g	15-30	184	21.4	400/27.5	1	MOD-FC-CDP-C18-7-33-1	93.00
48g	48mg-0.96g	20-40	184.4	26.7	400/27.5	1	MOD-FC-CDP-C18-7-48-1	146.00
105g	105mg-2.1g	30-60	257.4	31.2	350/24.0	1	MOD-FC-CDP-C18-7-105-1	321.00
155g	155mg-3.1g	40-80	261.5	38.6	300/20.7	1	MOD-FC-CDP-C18-7-155-1	461.00
295g	295mg-5.9g	50-100	223.5	61.4	300/20.7	1	MOD-FC-CDP-C18-7-295-1	885.00
420g	420mg-8.4g	50-100	280.2	61.4	250/17.2	1	MOD-FC-CDP-C18-7-420-1	1270.00

# Ultra-Pure Irregular NH2

## Ultra-pure irregular NH2, 40-63 $\mu\text{m}$ , 60 Å

(amino content 1.3 mmol/g, end-capped, surface area 500 m<sup>2</sup>/g, loading capacity 0.1-2%)

Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max Pressure (psi/bar)	Pack Size	Part No.	List £
5.9g	5.9mg-118mg	10-20	113.8	12.4	400/27.5	2	MOD-FC-CDP-NH2-59-2	42.00
23g	23mg-0.46g	15-30	134.8	21.4	400/27.5	1	MOD-FC-CDP-NH2-23-1	57.00
38g	38mg-0.76g	15-30	184	21.4	400/27.5	1	MOD-FC-CDP-NH2-38-1	92.00
55g	55mg-1.1g	20-40	184.4	26.7	400/27.5	1	MOD-FC-CDP-NH2-55-1	144.00
122g	122mg-2.5g	30-60	257.4	31.2	350/24.0	1	MOD-FC-CDP-NH2-122-1	320.00
180g	180mg-3.6g	40-80	261.5	38.6	300/20.7	1	MOD-FC-CDP-NH2-180-1	461.00
340g	340mg-6.8g	50-100	223.5	61.4	300/20.7	1	MOD-FC-CDP-NH2-340-1	871.00
475g	475mg-9.5g	50-100	280.2	61.4	250/17.2	1	MOD-FC-CDP-NH2-475-1	1229.00

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## Ultra-Pure Semi-Spherical C18

### Ultra-pure semi-spherical C18, 50 $\mu\text{m}$ , 90 Å

(carbon content 17%, end-capped, surface area 400 m<sup>2</sup>/g, loading capacity 0.1-2%)

Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max Pressure (psi/bar)	Pack Size	Part No.	List £
5g	5mg-100mg	10-20	113.8	12.4	400/27.5	2	MOD-FC-CDP-C18-5-2	38.00
19g	19mg-0.38g	15-30	134.8	21.4	400/27.5	1	MOD-FC-CDP-C18-19-1	50.00
32g	32mg-0.64g	15-30	184	21.4	400/27.5	1	MOD-FC-CDP-C18-32-1	82.00
46g	46mg-0.92g	20-40	184.4	26.7	400/27.5	1	MOD-FC-CDP-C18-46-2	128.00
100g	100mg-2.0g	30-60	257.4	31..2	350/24.0	1	MOD-FC-CDP-C18-100-2	278.00
150g	150mg-3.0g	40-80	261.5	38.6	300/20.7	1	MOD-FC-CDP-C18-150-2	406.00
280g	280mg-5.6g	50-100	223.5	61.4	300/20.7	1	MOD-FC-CDP-C18-280-2	764.00
395g	395mg-7.9g	50-100	280.2	61.4	250/17.2	1	MOD-FC-CDP-C18-395-2	1084.00

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# Ultra-Pure Spherical C18

## Ultra-pure spherical C18, 40-60 $\mu\text{m}$ , 120 $\text{\AA}$

(carbon content 17%, end-capped, surface area 300 m<sup>2</sup>/g, loading capacity 0.1-1.5%)

Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max Pressure (psi/bar)	Pack Size	Part No.	List £
4.5g	4.5mg-68mg	10-20	113.8	12.4	400/27.5	2	MOD-FC-CDP-C18-1-45-2	41.00
18g	18mg-0.27g	15-30	134.8	21.4	400/27.5	1	MOD-FC-CDP-C18-1-18-1	58.00
28g	28mg-0.42g	15-30	184	21.4	400/27.5	1	MOD-FC-CDP-C18-1-28-1	90.00
40g	40mg-0.60g	20-40	184.4	26.7	400/27.5	1	MOD-FC-CDP-C18-1-40-1	139.00
90g	90mg-1.35g	30-60	257.4	31.2	350/24.0	1	MOD-FC-CDP-C18-1-90-1	310.00
130g	130mg-1.95g	40-80	261.5	38.6	300/20.7	1	MOD-FC-CDP-C18-1-130-1	435.00
245g	245mg-3.68g	50-100	223.5	61.4	300/20.7	1	MOD-FC-CDP-C18-1-245-1	831.00
350g	350mg-5.25g	50-100	280.2	61.4	250/17.2	1	MOD-FC-CDP-C18-1-350-1	1188.00

## Ultra-pure spherical C18, 40-75 $\mu\text{m}$ , 100 $\text{\AA}$

(carbon content 17%, end-capped, surface area 300 m<sup>2</sup>/g, loading capacity 0.1-1.5%)

Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max Pressure (psi/bar)	Pack Size	Part No.	List £
4.6g	4.6mg-69mg	10-20	113.8	12.4	400/27.5	2	MOD-FC-CDP-C18-5-46-2	40.00
18g	18mg-0.27g	15-30	134.8	21.4	400/27.5	1	MOD-FC-CDP-C18-5-18-1	57.00
30g	30mg-0.45g	15-30	184	21.4	400/27.5	1	MOD-FC-CDP-C18-5-30-1	92.00
43g	43mg-0.65g	20-40	184.4	26.7	400/27.5	1	MOD-FC-CDP-C18-5-43-1	144.00
95g	95mg-1.43g	30-60	257.4	31.2	350/24.0	1	MOD-FC-CDP-C18-5-95-1	318.00
142g	142mg-2.13g	40-80	261.5	38.6	300/20.7	1	MOD-FC-CDP-C18-5-142-1	461.00
265g	265mg-3.98g	50-100	223.5	61.4	300/20.7	1	MOD-FC-CDP-C18-5-265-1	873.00
385g	385mg-5.78g	50-100	280.2	61.4	250/17.2	1	MOD-FC-CDP-C18-5-385-1	1269.00

## High-Efficiency Spherical C18

### High-efficiency spherical C18, 20-45 $\mu\text{m}$ , 100 Å

(carbon content 17%, end-capped, surface area 320 m<sup>2</sup>/g, loading capacity 0.1-2%)

Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max Pressure (psi/bar)	Pack Size	Part No.	List £
5.4g	5.4mg-108mg	5-15	113.8	12.4	400/27.5	2	MOD-FC-CDP-C18-4-54-2	48.00
20g	20mg-0.40g	10-25	134.8	21.4	400/27.5	1	MOD-FC-CDP-C18-4-20-1	68.00
33g	33mg-0.66g	10-25	184	21.4	400/27.5	1	MOD-FC-CDP-C18-4-33-1	111.00
48g	48mg-0.96g	15-30	184.4	26.7	400/27.5	1	MOD-FC-CDP-C18-4-48-1	176.00
105g	105mg-2.1g	20-50	257.4	31.2	350/24.0	1	MOD-FC-CDP-C18-4-105-1	385.00
155g	155mg-3.1g	30-60	261.5	38.6	300/20.7	1	MOD-FC-CDP-C18-4-155-1	554.00
300g	300mg-6.0g	40-80	223.5	61.4	300/20.7	1	MOD-FC-CDP-C18-4-300-1	1082.00
420g						1	MOD-FC-CDP-C18-4-420-1	1530.00

### High-efficiency spherical C18, 30-50 $\mu\text{m}$ , 120 Å

(carbon content 17%, end-capped, surface area 300 m<sup>2</sup>/g, loading capacity 0.1-2%)

Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max Pressure (psi/bar)	Pack Size	Part No.	List £
4.3g	4.3mg-86mg	5-15	113.8	12.4	400/27.5	2	MOD-FC-CDP-C18-2-43-2	44.00
16g	16mg-0.32g	10-25	134.8	21.4	400/27.5	1	MOD-FC-CDP-C18-2-16-1	60.00
26g	26mg-0.52g	10-25	184	21.4	400/27.5	1	MOD-FC-CDP-C18-2-26-1	96.00
39g	39mg-0.78g	15-30	184.4	26.7	400/27.5	1	MOD-FC-CDP-C18-2-39-1	155.00
85g	85mg-1.7g	20-50	257.4	31.2	350/24.0	1	MOD-FC-CDP-C18-2-85-1	347.00
125g	125mg-2.5g	30-60	261.5	38.6	300/20.7	1	MOD-FC-CDP-C18-2-125-1	897.00
240g	240mg-4.8g	40-80	223.5	61.4	300/20.7	1	MOD-FC-CDP-C18-2-240-1	948.00
335g	335mg-6.7g	40-80	280.2	61.4	250/17.2	1	MOD-FC-CDP-C18-2-335-1	1336.00

### High-efficiency spherical C18, 15 $\mu\text{m}$ , 100 Å

(carbon content 17%, end-capped, surface area 320 m<sup>2</sup>/g, loading capacity 0.1-2%)

Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max Pressure (psi/bar)	Pack Size	Part No.	List £
5.4g	5.4mg-108mg	5-15	113.8	12.4	400/27.5	2	MOD-FC-CDP-C18-3-54-2	67.00
20g	20mg-0.40g	10-25	134.8	21.4	400/27.5	1	MOD-FC-CDP-C18-3-20-1	107.00
33g	33mg-0.66g	10-25	184	21.4	400/27.5	1	MOD-FC-CDP-C18-3-33-1	175.00
48g	48mg-0.96g	15-30	184.4	26.7	400/27.5	1	MOD-FC-CDP-C18-3-48-1	277.00
105g	105mg-2.1g	20-50	257.4	31.2	350/24.0	1	MOD-FC-CDP-C18-3-105-1	611.00
155g	155mg-3.1g	30-60	261.5	38.6	300/20.7	1	MOD-FC-CDP-C18-3-155-1	883.00
290g	290mg-5.8g	40-80	223.5	61.4	300/20.7	1	MOD-FC-CDP-C18-3-290-1	1714.00
410g	410mg-8.2g	40-80	280.2	61.4	250/17.2	1	MOD-FC-CDP-C18-3-410-1	2454.00

# High-Efficiency Spherical CN & C4

## High-efficiency spherical CN, 20-45 µm, 100 Å

(carbon content 5.5%, end-capped, surface area 320 m<sup>2</sup>/g, loading capacity 0.1-2%)

Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max Pressure (psi/bar)	Pack Size	Part No.	List £
5.4g	5.4mg-108mg	5-15	113.8	12.4	400/27.5	2	MOD-FC-CDP-CN-54-2	57.00
20g	20mg-0.40g	10-25	134.8	21.4	400/27.5	1	MOD-FC-CDP-CN-20-1	86.00
33g	33mg-0.66g	10-25	184	21.4	400/27.5	1	MOD-FC-CDP-CN-33-1	139.00
48g	48mg-0.96g	15-30	184.4	26.7	400/27.5	1	MOD-FC-CDP-CN-48-1	221.00
105g	105mg-2.1g	20-50	257.4	31.2	350/24.0	1	MOD-FC-CDP-CN-105-1	488.00
155g	155mg-3.1g	30-60	261.5	38.6	300/20.7	1	MOD-FC-CDP-CN-155-1	699.00
300g	300mg-6.0g	40-80	223.5	61.4	300/20.7	1	MOD-FC-CDP-CN-300-1	1373.00
420g	420mg-8.4g	40-80	280.2	61.4	250/17.2	1	MOD-FC-CDP-CN-420-1	1958.00

## High-efficiency spherical C4, 20-45 µm, 100 Å

(carbon content 5.8%, end-capped, surface area 320 m<sup>2</sup>/g, loading capacity 0.1-2%)

Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max Pressure (psi/bar)	Pack Size	Part No.	List £
5.4g	5.4mg-108mg	5-15	113.8	12.4	400/27.5	2	MOD-FC-CDP-C4-54-2	59.00
20g	20mg-0.40g	10-25	134.8	21.4	400/27.5	1	MOD-FC-CDP-C4-20-1	89.00
33g	33mg-0.66g	10-25	184	21.4	400/27.5	1	MOD-FC-CDP-C4-33-1	145.00
48g	48mg-0.96g	15-30	184.4	26.7	400/27.5	1	MOD-FC-CDP-C4-48-1	229.00
105g	105mg-2.1g	20-50	257.4	31.2	350/24.0	1	MOD-FC-CDP-C4-105-1	506.00
155g	155mg-3.1g	30-60	261.5	38.6	300/20.7	1	MOD-FC-CDP-C4-155-1	725.00
300g	300mg-6.0g	40-80	223.5	61.4	300/20.7	1	MOD-FC-CDP-C4-300-1	1454.00
420g	420mg-8.4g	40-80	280.2	61.4	250/17.2	1	MOD-FC-CDP-C4-420-1	2036.00

## High-Efficiency Spherical C8 & DIOL

### High-efficiency spherical C8, 20-45 µm, 100 Å

(carbon content 7%, end-capped, surface area 320 m<sup>2</sup>/g, loading capacity 0.1-2%)

Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max Pressure (psi/bar)	Pack Size	Part No.	List £
5.4g	5.4mg-108mg	5-15	113.8	12.4	400/27.5	2	MOD-FC-CDP-C8-54-2	51.00
20g	20mg-0.40g	10-25	134.8	21.4	400/27.5	1	MOD-FC-CDP-C8-20-1	73.00
33g	33mg-0.66g	10-25	184	21.4	400/27.5	1	MOD-FC-CDP-C8-33-1	119.00
48g	48mg-0.96g	15-30	184.4	26.7	400/27.5	1	MOD-FC-CDP-C8-48-1	187.00
105g	105mg-2.1g	20-50	257.4	31.2	350/24.0	1	MOD-FC-CDP-C8-105-1	412.00
155g	155mg-3.1g	30-60	261.5	38.6	300/20.7	1	MOD-FC-CDP-C8-155-1	594.00
300g	300mg-6.0g	40-80	223.5	61.4	300/20.7	1	MOD-FC-CDP-C8-300-1	1162.00
420g	420mg-8.4g	40-80	280.2	61.4	250/17.2	1	MOD-FC-CDP-C8-420-1	1636.00

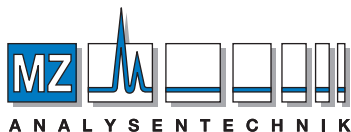
### High-efficiency spherical Diol, 20-45 µm, 100 Å

(carbon content 5%, end-capped, surface area 320 m<sup>2</sup>/g, loading capacity 0.1-2%)

Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max Pressure (psi/bar)	Pack Size	Part No.	List £
5.4g	5.4mg-108mg	5-15	113.8	12.4	400/27.5	2	MOD-FC-CDP-DIOL-54-2	50.00
20g	20mg-0.40g	10-25	134.8	21.4	400/27.5	1	MOD-FC-CDP-DIOL-20-1	71.00
33g	33mg-0.66g	10-25	184	21.4	400/27.5	1	MOD-FC-CDP-DIOL-33-1	115.00
48g	48mg-0.96g	15-30	184.4	26.7	400/27.5	1	MOD-FC-CDP-DIOL-48-1	181.00
105g	105mg-2.1g	20-50	257.4	31.2	350/24.0	1	MOD-FC-CDP-DIOL-105-1	395.00
155g	155mg-3.1g	30-60	261.5	38.6	300/20.7	1	MOD-FC-CDP-DIOL-155-1	567.00
300g	300mg-6.0g	40-80	223.5	61.4	300/20.7	1	MOD-FC-CDP-DIOL-300-1	1123.00
420g	420mg-8.4g	40-80	280.2	61.4	250/17.2	1	MOD-FC-CDP-DIOL-420-1	1588.00



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