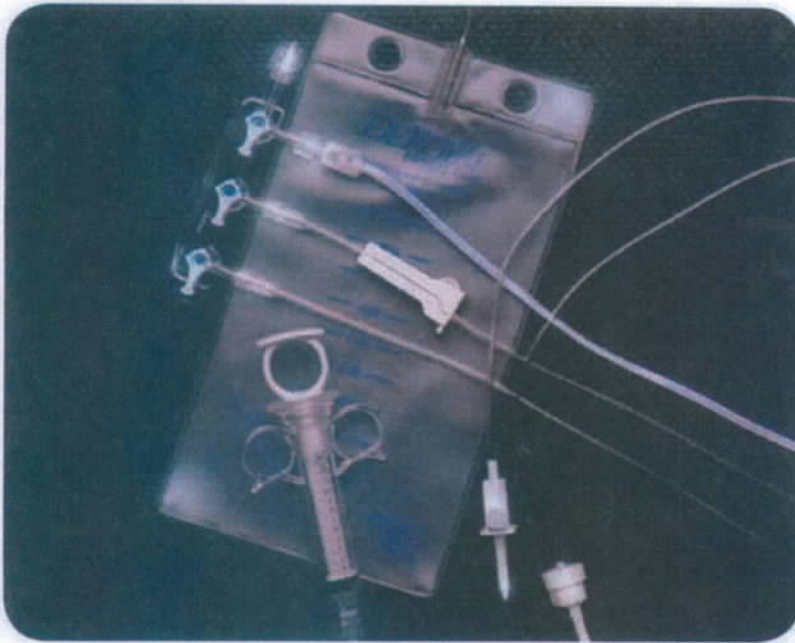


Getting to the Heart of Quality

MANIFOLDS



Standard Manifold Kits

- All standard manifold kits contain one each of the following attached to the low pressure manifold types listed below:
72" Vented Contrast Media Set; 72" Universal Macro Drip Set; 60" Male to Female Pressure Monitoring Line
- DeRoyal can also provide you with a custom manifold kit that contains the specific products you require
- All items packed sterile
- Latex free

Basic Kits

Product No.	Description	Quantity
77-300509	"OFF" Left-Handed 3 Port	10/Cs
77-300521	"OFF" Right-Handed 3 Port	10/Cs
77-300510	"ON" Left-Handed 3 Port	10/Cs
77-300522	"ON" Right-Handed 3 Port	10/Cs

Advanced Kits

Product No.	Description	Quantity
77-400451	"ON" Right-Handed, 3 Port w/12 cc Control Syringe w/RA	25/Cs
77-400452	"ON" Right-Handed, 3 Port w/Biosensor Transducer, 48" F-RA HP Injection Line, 12cc Syringe RA	25/Cs
77-400454	"ON" Right-Handed, 3 Port w/Edwards Transducer, 48" F-RA HP Injection Line, 12cc Syringe RA	25/Cs
77-400453	"OFF" Right-Handed, 3 Port w/12 cc Control Syringe w/RA	25/Cs
77-400456	"OFF" Right-Handed, 3 Port w/Edwards Transducer, 48" F-RA HP Injection Line, 12cc Syringe RA	25/Cs
77-400450	"OFF" Right-Handed, 3 Port w/Biosensor Transducer, 48" F-RA HP Injection Line, 12cc Syringe RA	25/Cs

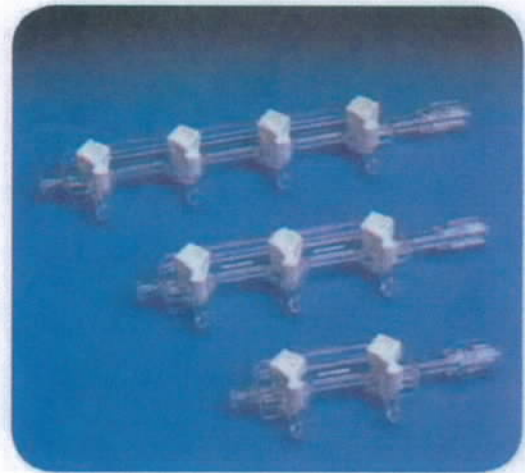
Angiographic Accessory Products

MANIFOLDS

Low Pressure Manifolds 250 PSI*

- For low pressure injections
- Smooth-turning handles
- Very large internal manifold lumen (2.3mm diameter) for high flow rates
- Pressure rating based on DeRoyal's sterilization cycle
- All items packed sterile
- Latex free

Product No.	Description		Quantity
77-300002	"OFF" Right-Handed Rotator	2 Port	25/Cs
77-300003	"OFF" Left-Handed Rotator	2 Port	25/Cs
77-300008	"OFF" Right-Handed Rotator	3 Port	25/Cs
77-300009	"OFF" Left-Handed Rotator	3 Port	25/Cs
77-300114	"OFF" Right-Handed Rotator	4 Port	25/Cs
77-300199	"OFF" All Female Ports, 360°	5 Port	25/Cs
77-300000	"ON" Right-Handed Rotator	2 Port	25/Cs
77-300001	"ON" Left-Handed Rotator	2 Port	25/Cs
77-300006	"ON" Right-Handed Rotator	3 Port	25/Cs
77-300007	"ON" Left-Handed Rotator	3 Port	25/Cs
77-300112	"ON" Right-Handed Rotator	4 Port	25/Cs
77-300198	"ON" All Female Ports, 360°	5 Port	25/Cs



* Patent # 5,527,299.

Medium Pressure Manifolds 550 PSI*

- Very large internal manifold lumen (2.3mm diameter) for high flow rates
- Pressure rating based on DeRoyal's sterilization cycle
- All items packed sterile
- Latex free

Product No.	Description		Quantity
77-400593	"OFF" Right-Handed Rotator	2 Port	25/Cs
77-400591	"OFF" Right-Handed Rotator	3 Port	25/Cs
77-400596	"OFF" Right-Handed Rotator	4 Port	25/Cs
77-400594	"ON" Right-Handed Rotator	2 Port	25/Cs
77-400592	"ON" Right-Handed Rotator	3 Port	25/Cs
77-400595	"ON" Right-Handed Rotator	4 Port	25/Cs

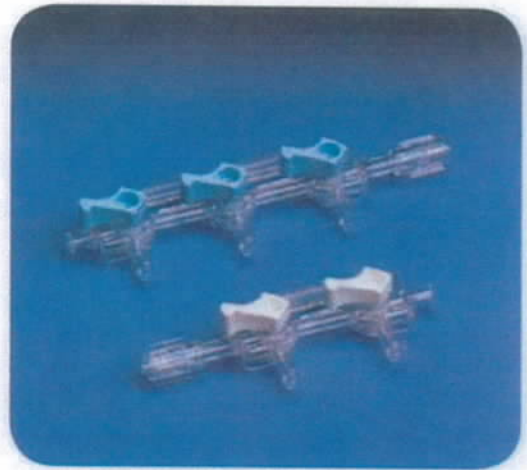
Getting to the Heart of Quality

MANIFOLDS

High Pressure Manifolds 800 PSI*

- Continuous large internal diameter (2.3 mm diameter)
- Ideal for special procedures requiring small catheters and power injection
- Pressure rating based on DeRoyal's sterilization cycle
- All items packed sterile
- Latex free

Product No.	Description	Quantity
77-310102	"OFF" Right-Handed Rotator 2 Port	25/Cs
77-310103	"OFF" Left-Handed Rotator 2 Port	25/Cs
77-310108	"OFF" Right-Handed Rotator 3 Port	25/Cs
77-310109	"OFF" Left-Handed Rotator 3 Port	25/Cs
77-310100	"ON" Right-Handed Rotator 2 Port	25/Cs
77-310101	"ON" Left-Handed Rotator 2 Port	25/Cs
77-310106	"ON" Right-Handed Rotator 3 Port	25/Cs
77-310107	"ON" Left-Handed Rotator 3 Port	25/Cs



* Patent # 5,527,299.

PRESSURE MONITORING

Pressure Monitoring Lines

- Clear, high durometer for accurate measurements
- Facilitates optimum dynamic response
- All items packed sterile
- Latex free

Product No.	Description	Quantity
77-301701	6" Male to Female	50/Cs
77-301700	6" Male to Male	50/Cs
77-301703	12" Male to Female	50/Cs
77-301702	12" Male to Male	50/Cs
77-301705	24" Male to Female	50/Cs
77-301704	24" Male to Male	50/Cs
77-301707	36" Male to Female	50/Cs
77-301706	36" Male to Male	50/Cs
77-301709	48" Male to Female	50/Cs
77-301708	48" Male to Male	50/Cs
77-301711	60" Male to Female	50/Cs
77-301710	60" Male to Male	50/Cs
77-301713	72" Male to Female	50/Cs
77-301712	72" Male to Male	50/Cs
77-301715	84" Male to Female	50/Cs
77-301714	84" Male to Male	50/Cs
77-301717	96" Male to Female	50/Cs
77-301716	96" Male to Male	50/Cs



Angiographic Accessory Products

STOPCOCKS



High and Low Pressure Stopcocks*

- Available in both high and low pressure capacity
- Large inner lumens
- Smooth rotation
- All items packed sterile
- Latex free

Product No.	Description	Quantity
High Pressure		
77-310135	"OFF" w/Rotating Adapter, 3-Way	25/Cs
77-310134	"OFF" w/Male Collar, 3-Way	25/Cs
77-310132	"ON" w/Rotating Adapter, 3-Way	25/Cs
77-400072	"ON" w/Rotating Adapter, 1-Way	25/Cs
77-530653	"ON" w/Male Collar, 1-Way	25/Cs
77-8837	Flow Switch	50/Cs

Low Pressure		
77-300134	"OFF" w/Male Collar, 3-Way	25/Cs
77-400176	"ON" w/Male Collar, 1-Way	25/Cs

* Patent # 5,527,299.



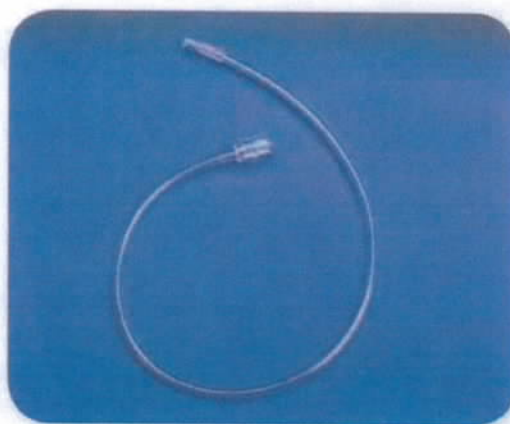
Angiographic Accessory Products

HIGH PRESSURE INJECTION LINES

Non-Braided HP Injector Lines 1000 PSI

- Ideal for all power injector applications
- Offered in a variety of lengths
- Available with or without high pressure rotating adapter
- Pressure rating based on DeRoyal's sterilization cycle
- All items packed sterile
- Latex free

Product No.	Description	Quantity
77-301600	10" Female to Male Luer Lock	25/Cs
77-301604	10" Female Luer Lock to Male Rotator	25/Cs
77-301601	20" Female to Male Luer Lock	25/Cs
77-301605	20" Female Luer Lock to Male Rotator	25/Cs
77-301602	30" Female to Male Luer Lock	25/Cs
77-301606	30" Female Luer Lock to Male Rotator	25/Cs
77-400169	48" Female to Male Luer Lock	25/Cs
77-400407	48" Female Luer Lock to Male Rotator	25/Cs
77-400206	48" Male to Male Luer Lock	10/Cs
77-400234	72" Female to Male Luer Lock	25/Cs
77-400235	72" Female Luer Lock to Male Rotator	25/Cs



Line Specifications For HP Lines, Non-Braided

- Hydrodynamic pressure
- High pressure lines will withstand one injection at 1000 PSI using the following settings:
 - Limiting Pressure – Up to 1200 PSI
 - Injector Volume – Up to 20 ml
 - Flow Rate – Up to 20 ml per second
 - Linear Rise – 0 seconds

Getting to the Heart of Quality

HIGH PRESSURE INJECTION LINES

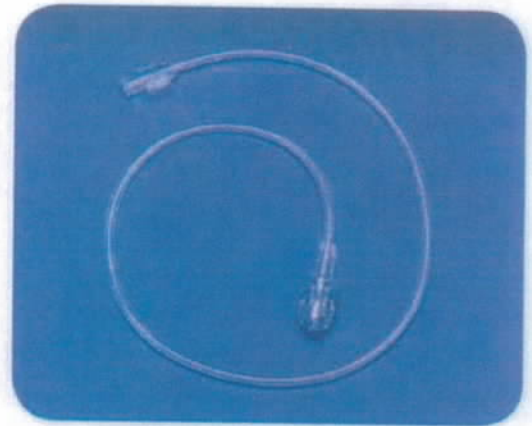
Braided HP Injector Lines 1200 PSI

- Combines high pressure capacity with superior flexibility
- Available with or without high pressure rotating adapter
- Pressure rating based on DeRoyal's sterilization cycle
- New standard Arteriogram Kits add more value and convenience
- All items packed sterile
- Latex free

Product No.	Description	Quantity
77-530141	10" Female to Male Luer Lock	25/Cs
77-530148	10" Female Luer Lock to Male Rotator	25/Cs
77-530142	20" Female to Male Luer Lock	25/Cs
77-530149	20" Female Luer Lock to Male Rotator	25/Cs
77-530143	30" Female to Male Luer Lock	25/Cs
77-530150	30" Female Luer Lock to Male Rotator	25/Cs
77-530145	48" Female to Male Luer Lock	25/Cs
77-530152	48" Female Luer Lock to Male Rotator	25/Cs
77-400229	60" Female to Male Luer Lock	25/Cs
77-400213	60" Female Luer Lock to Male Rotator	25/Cs
77-400369	72" Female to Male Luer Lock	25/Cs
77-400370	72" Female Luer Lock to Male Rotator	25/Cs

Standard Arteriogram Kits

Product No.	Description	Quantity
77-400604	48" F-RA Braided w/3-Way H.P. Stopcock w/RA	25/Cs
77-400605	48" F-RA Braided w/Flow Switch	25/Cs
77-400603	72" F-RA Braided w/3-Way H.P. Stopcock w/RA	25/Cs
77-400606	72" F-RA Braided w/Flow Switch	25/Cs



Line Specifications For HP Lines, Braided

- Hydrodynamic pressure
- High pressure Lines will withstand up to three injections using the following hydrodynamic injection settings:
 - 3.3.3.1 Using a 4 Fr, 5 Fr, or larger catheter (0.035" or 0.038" ID)
 - Limiting Pressure – Up to 1200 psi
 - Injector Volume – Up to 45 ml
 - Flow Rate – Up to 22 ml per second
 - Linear Rise – 0 seconds
 - 3.3.3.2 Using a 6 Fr, or larger catheter (0.038" ID)
 - Limiting Pressure – Up to 1200 psi
 - Injector Volume – Up to 100 ml
 - Flow Rate – Up to 35 ml per second
 - Linear Rise – 0 seconds