



# J Young®

- Schlenk Lines - High Vacuum Manifolds
- High Vacuum Greaseless Stopcocks
- NMR Valves
- Greaseless Spherical Joints
- Schlenk Flasks
- NEW High Performance (HP) J Young Valves

- Custom options available
- Contact us for more information  
+44 (0)1525 382277
- Email drawings to  
[sales@gpescientific.co.uk](mailto:sales@gpescientific.co.uk)

[www.gpescientific.co.uk](http://www.gpescientific.co.uk)

## Introduction



GPE Scientific Limited is the exclusive manufacturer of the J Young brand.

J Young high vacuum greaseless stopcocks, synonymous the world over for their high quality incorporate three Viton O-ring seals (one encapsulated in PTFE) on a standard PTFE piston.

Glass pistons are available for low temperature work -20°C to 200°C (15mm Variant only) and where greater chemical resistance is required we offer Perfluoro O-rings.

A Vacuum level of  $1 \times 10^{-6}$  mbar can be achieved with this valve.  
Internal positive pressure rating = 1 bar (14.7 PSI)

Our stopcocks are available with a choice of two types of threads, fine threads reference POR (yellow) and fast threads reference PTT (white).

The POR range has alternative coloured caps available upon request.

Please note that the PTFE used complies with the requirements of FDA 21 CFR 177.1550 and USP class VI and is free from animal components BSE/TSE.

For additional component technical data please see our web page  
<https://www.gpescientific.co.uk/glassware/gpe-scientific-glassware/j-young-products>

## Contents



Vacuum Manifolds & Schlenk Lines	3-4
Cone adapters	5
Vac Line Cold Traps & Bubblers	6
NMR Valves	7, 8
NMR Valve Evacuation Manifold / Schlenk Flasks & Tubes	9
Needle Valves, Air Inlet Valves & Vacuum/Schlenk Flasks	10
Sample Flasks & Tubes	11
Schlenk Flasks & Sample Flasks	12
Schlenk Flasks & Schlenk Caps	13
High Vacuum Greaseless Stopcocks	14-16
Spherical Joints	17
General Purpose O-Ring Taps	18
Sample Flasks & Tubes	19
High Vacuum O-Ring Joints	19

### NEW High Performance (HP) J Young Valves



NEW High Performance (HP) J Young valves - Choose between our standard J Young valves or the HP variant.

The HP variant features a reinforced sealing area (Where the PTFE piston makes the vacuum tight seal) providing extra strength for more demanding applications, key features as below

- New robust design
- Improved interchangeability
- Reinforced sealing area

Dual Bank Schlenk Line



GPE Dual Bank Manifold with J Young High Vacuum PTFE Valves.  
The main tubes are 24mm OD with serrated 9mm end connections.  
Available with 3, 4 or 5 ports.

Product Code	Number of ports	J Y Valve Size (mm)	Approx Overall Width (mm)
90010	3	0-10	300
90011	4	0-10	400
90012	5	0-10	500
90010/HP	3	0-10	300
90011/HP	4	0-10	400
90012/HP	5	0-10	500

Option of the additional flange for mounting the vacuum gauge for each manifold

Just add the suffix -NW16 to the product code listed

Dual Bank Schlenk Line with Glass Stopcocks



GPE Dual Bank Manifold with Glass Stopcocks.  
The main tubes are 24mm OD with B19 socket ends.  
Available with 3, 4 or 5 ports.

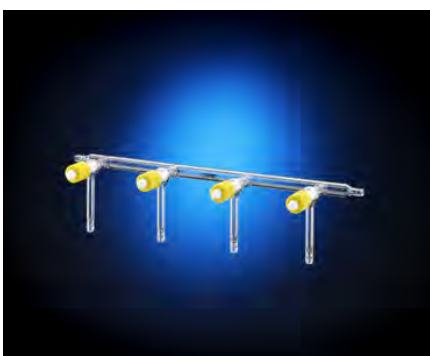
Product Code	Number of ports	Valve Size (mm)	Approx Overall Width (mm)
90013	3	4	300
90014	4	4	400
90015	5	4	500
90013/HP	3	4	300
90014/HP	4	4	400
90015/HP	5	4	500

Option of the additional flange for mounting the vacuum gauge for each manifold

Just add the suffix -NW16 to the product code listed

For B19 cone adapters please see product code JYA/2 (page 14).

General Purpose Single Bank Manifold



General Purpose Single Bank Vacuum Manifold with J Young High Vacuum PTFE Valves.  
The main tube is 16mm OD with serrated 9mm end connections.  
Available with 3, 4 or 5 ports.

Product Code	Number of ports	J Y Valve Size (mm)	Approx Overall Width (mm)
90001	3	0-10	300
90002	4	0-10	400
90003	5	0-10	500
90001/HP	3	0-10	300
90002/HP	4	0-10	400
90003/HP	5	0-10	500

Also available with custom ports and blanked banks, contact us for more information  
sales@gpescientific.co.uk

RELATED PRODUCTS

For vacuum traps, see page 6

For bubblers, see page 6

Custom options available, with e.g. banks blanked off, custom widths between ports, custom port sizing and built in cold traps

Different taps colours are available, contact us for more details on +44(0)1525 382277 or sales@gpscientific.co.uk

### General Purpose Single Bank Manifold with Vacuum Gauge



General Purpose Single Bank Vacuum Manifold with J Young High Vacuum PTFE Valves and vacuum gauge port.

The main tube is 16mm OD with serrated 9mm end connections.

Available with 3, 4 or 5 ports.

Product Code	Number of ports	J Y Valve Size (mm)	Approx Overall Width (mm)
90004	3	0-10	300
90005	4	0-10	400
90006	5	0-10	500
90004/HP	3	0-10	300
90005/HP	4	0-10	400
90006/HP	5	0-10	500

### Space Saving Manifold



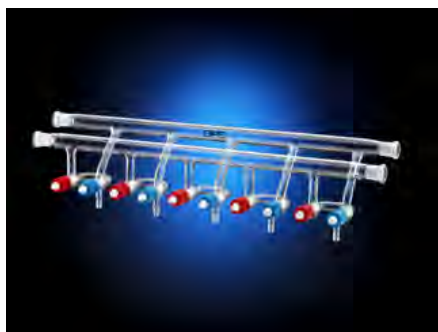
General Purpose Space Saving Vacuum Manifold with J Young High Vacuum PTFE Valves.

The main tube is 13mm OD with serrated 10mm end connections.

Available with 3, 5 or 8 ports.

Product Code	Number of ports	J Y Valve Size (mm)	Approx Overall Width (mm)
90007	3	0-10	225
90008	5	0-10	305
90009	8	0-10	420
90007/HP	3	0-10	225
90008/HP	5	0-10	305
90009/HP	8	0-10	420

### Dual Bank Offset Schlenk Line



GPE Dual Bank Offset Schenk Line with front control J Young High Vacuum PTFE Valves.

The main tubes are 24mm OD with B19 socket ends.

Available with 3, 4 or 5 ports.

Product Code	Number of ports	J Y Valve Size (mm)	Approx Overall Width (mm)
90019	3	0-10	300
90020	4	0-10	400
90021	5	0-10	500
90019/HP	3	0-10	300
90020/HP	4	0-10	400
90021/HP	5	0-10	500

Option of the additional flange for mounting the vacuum gauge for each manifold

Just add the suffix -NW16 to the product

For B19 cone adapters please see product code JYA/1 (page 5).

### RELATED PRODUCTS

For vacuum traps, see page 6

For bubblers, see page 6

Accessories and Recommended Products



Option of the additional flange for mounting the vacuum gauge for each manifold

Just add the suffix -NW16 to the product code listed

Vacuview extended



Vacuview



E30.016010.132.816 - Clamp

NEW  
Vacuupure  
Pump

Vacuum Pump  
Trolley

Rubber Tubing



E34.016035.123.616 - Seal

B19 Cone Adaptor with Glass Stopcock



For use with manifolds  
90013,  
90014,  
90015.

Product Code  
JYA/2

B19 Cone Adaptor with J Young Valve



For use with manifolds  
90019,  
90020,  
90021.

Product Code  
JYA/1 JYA/1/HP

RELATED PRODUCTS

For vacuum traps, see page 6

For bubblers, see page 6

Vac Line Cold Trap



Basic Vac Line Cold Trap with glass key on the inlet. Glass key on the outlet also available.

Product Code	Body Diameter (mm)	Body Length (mm)	Inner Tube Diameter (mm)	Hose Connection Diameter (mm)
JYT/1	44	280	13	15

Vac Line Cold Trap



Basic Vac Line Cold Trap with glass key on the outlet. Glass key on the inlet also available  
With B40 socket and high vacuum glass key on the outlet.

Product Code	Body Diameter (mm)	Body Length (mm)	Inner Tube Diameter (mm)	Hose Connection Diameter (mm)
JYT/2	44	280	13	15

Vac Line Cold Trap



High quality Rodaviss Joint with removable cap with Viton O-Rings. Can be custom designed.  
With B45 Rodaviss joint and JY bleed valve.

Product Code	Body Diameter (mm)	Body Length (mm)	Inner Tube Diameter (mm)	Hose Connection Diameter (mm)
JYT/3	50	240	13	15

Vac Line Bubbler



For use with Schlenk Lines and Vacuum Manifolds.

Product Code	Capacity (ml)	Overall Length (mm)	Diameter (mm)
JYB/1	20	130	30

see our website for dewar options



RELATED PRODUCTS

For manifolds & shlenk lines, see pages 3-4

JY NMR Valve with Tube Attached



Handle your NMR sample without flame sealing your tubes.  
 Teflon covered O-Ring eliminates material incompatibilities.  
 Completely greaseless Teflon assembly which is easy to use and to disassemble for cleaning.  
 Includes female joint for quick attachment to your vacuum rack.

Product Code	Description	NMR Tube length (inches)	MHz
S-5-200-JY-7	Norell Select Series NMR Tube with 5mm NMR Valve	7	200
S-506-PP-JY-7	Wilmad Precision NMR Tube with 5mm NMR Valve	7	200
S-5-200-JY-8	Norell Select Series NMR Tube with 5mm NMR Valve	8	200
S-506-PP-JY-8	Wilmad Precision NMR Tube with 5mm NMR Valve	8	200
S-5-300-JY-7	Norell Select Series NMR Tube with 5mm NMR Valve	7	300
S-507-PP-JY-7	Wilmad Precision NMR Tube with 5mm NMR Valve	7	300
S-5-300-JY-8	Norell Select Series NMR Tube with 5mm NMR Valve	8	300
S-507-PP-JY-8	Wilmad Precision NMR Tube with 5mm NMR Valve	8	300
S-5-400-JY-7	Norell Select Series NMR Tube with 5mm NMR Valve	7	400
S-527-PP-JY-7	Wilmad Precision NMR Tube with 5mm NMR Valve	7	400
S-5-400-JY-8	Norell Select Series NMR Tube with 5mm NMR Valve	8	400
S-527-PP-JY-8	Wilmad Precision NMR Tube with 5mm NMR Valve	8	400
S-5-500-JY-7	Norell Select Series NMR Tube with 5mm NMR Valve	7	500
S-528-PP-JY-7	Wilmad Precision NMR Tube with 5mm NMR Valve	7	500
S-5-500-JY-8	Norell Select Series NMR Tube with 5mm NMR Valve	8	500
S-528-PP-JY-8	Wilmad Precision NMR Tube with 5mm NMR Valve	8	500
S-5-600-JY-7	Norell Select Series NMR Tube with 5mm NMR Valve	7	600
S-535-PP-JY-7	Wilmad Precision NMR Tube with 5mm NMR Valve	7	600
S-5-600-JY-8	Norell Select Series NMR Tube with 5mm NMR Valve	8	600
S-535-PP-JY-8	Wilmad Precision NMR Tube with 5mm NMR Valve	8	600
S-5-800-JY-7	Norell Select Series NMR Tube with 5mm NMR Valve	7	800
S-541-PP-JY-7	Wilmad Precision NMR Tube with 5mm NMR Valve	7	800
S-5-800-JY-8	Norell Select Series NMR Tube with 5mm NMR Valve	8	800
S-541-PP-JY-8	Wilmad Precision NMR Tube with 5mm NMR Valve	8	800
S-5-900-JY-7	Norell Select Series NMR Tube with 5mm NMR Valve	7	900
S-542-PP-JY-7	Wilmad Precision NMR Tube with 5mm NMR Valve	7	900
S-5-900-JY-8	Norell Select Series NMR Tube with 5mm NMR Valve	8	900
S-542-PP-JY-8	Wilmad Precision NMR Tube with 5mm NMR Valve	8	900

Available in Beige, Blue, Green, Orange, Red and Yellow.

RELATED PRODUCTS

For NMR Valve Evacuation Manifold, see page 9

## NEW - Reduced Length JY NMR Valve with Tube Attached



New 5" Design

Standard 7" design

Reduced Length J Young NMR Tubes - A perfect solution..

The NEW Reduced length J Young NMR tube fits easily below the Spectrometer safety barrier.

Reduced Mass: No need to adjust spectrometer gas flow  
No tube ejection issues

Additional Benefits: No excessive movement  
Lower centre of gravity

Product Code	Description	NMR Tube length (inches)	MHz
S-5-200-JY-5	Norell Select Series NMR Tube with 5mm NMR Valve	5	200
S-506-PP-JY-5	Wilma Precision NMR Tube with 5mm NMR Valve	5	200
S-5-300-JY-5	Norell Select Series NMR Tube with 5mm NMR Valve	5	300
S-507-PP-JY-5	Wilma Precision NMR Tube with 5mm NMR Valve	5	300
S-5-400-JY-5	Norell Select Series NMR Tube with 5mm NMR Valve	5	400
S-527-PP-JY-5	Wilma Precision NMR Tube with 5mm NMR Valve	5	400
S-5-500-JY-5	Norell Select Series NMR Tube with 5mm NMR Valve	5	500
S-528-PP-JY-5	Wilma Precision NMR Tube with 5mm NMR Valve	5	500
S-5-600-JY-5	Norell Select Series NMR Tube with 5mm NMR Valve	5	600
S-535-PP-JY-5	Wilma Precision NMR Tube with 5mm NMR Valve	5	600
S-5-800-JY-5	Norell Select Series NMR Tube with 5mm NMR Valve	5	800
S-541-PP-JY-5	Wilma Precision NMR Tube with 5mm NMR Valve	5	800
S-5-900-JY-5	Norell Select Series NMR Tube with 5mm NMR Valve	5	900
S-542-PP-JY-5	Wilma Precision NMR Tube with 5mm NMR Valve	5	900

Different taps colours are available, contact us for more details on +44(0)1525 382277 or [sales@gpscientific.co.uk](mailto:sales@gpscientific.co.uk)

### RELATED PRODUCTS

For NMR Valve Evacuation Manifold, see page 9



Custom options available, contact us for more information

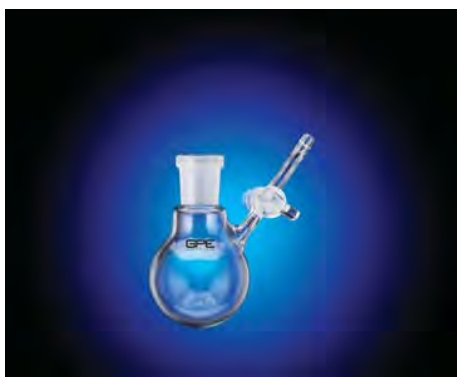
### NMR Valve Evacuation Manifold



Supplied as a separate component.

Product Code	JY Valve Size (mm)	Overall Length (mm) Including cap	Hose Connection Diameter (mm)
50150	10	110	9

### Schlenk Flask, Round Bottom with Glass Key and Socket



For use with Vacuum Manifolds and Schlenk Lines

Product Code	Capacity (ml)	Joint Size
SRG/25	25	14
SRG/50	50	19
SRG/100	100	24
SRG/250	250	24
SRG/500	500	24
SRG/1000	1000	29

### Finger Schlenk Tube with Fast Thread Tap



For use with Schlenk Lines and Vacuum Manifolds, available in various capacities.

Product Code	Capacity (ml)
JFF/5	5

### RELATED PRODUCTS

For NMR Valves, see pages 7, 8

For schlenk lines, see pages 3-4

### JY Needle Valve O-Ring Tap



The Needle Valve Tap incorporates the same O-Ring sealing method as our standard taps but with a PTFE needle shut off point

Calibrations on the barrel give an indication of flow to enable repetition

Product Code	Side Arm ID (mm)	Side Arm OD (mm)
POR/NW/1	1 mm Capillary	6
POR/NW/2	2 mm Capillary	6
POR/NW/3	3 mm Capillary	6
POR/NW/4	4 mm Capillary	7
POR/NW/6	6 mm Capillary	9
POR/NW/9	9 mm Capillary	12

### JY Air Inlet Valve

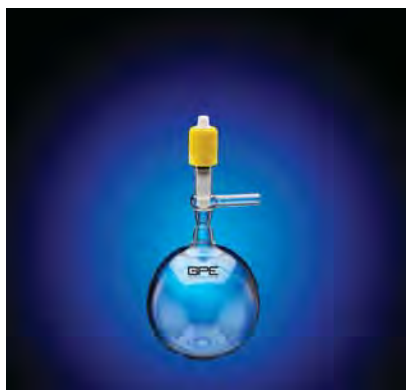


Many vacuum techniques require the system to be led down to air. This valve fulfills this requirement simply by turning the screw cap which releases a PTFE piston giving a fine control

Product Code	Item Description
ALS/1	Air Inlet Valve, 5mm Bore, with fine thread

For schlenk lines, see pages 3-4

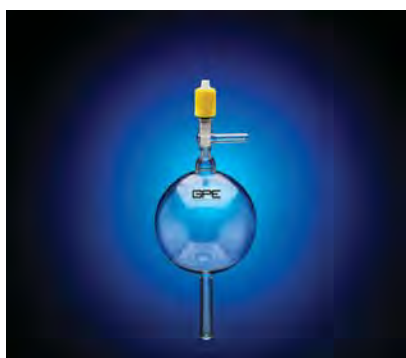
### JY Vacuum/Schlenk Flask with O-Ring Tap and Plain Arm



For use with Schlenk Lines and Vacuum Manifold, available in various capacities.

Product Code	Capacity (ml)	HP Product Code	Capacity (ml)
CSB/25	25	CSB/25/HP	25
CSB/50	50	CSB/50/HP	50
CSB/100	100	CSB/100/HP	100
CSB/250	250	CSB/250/HP	250
CSB/500	500	CSB/500/HP	500
CSB/1000	1000	CSB/1000/HP	1000

### JY Vacuum/Schlenk Flask with O-Ring Tap and Cold Finger Plain Arm



For use with Schlenk Lines and Vacuum Manifolds, available in various capacities.

Product Code	Capacity (ml)	HP Product Code	Capacity (ml)
CSY/25	25	CSY/25/HP	25
CSY/50	50	CSY/50/HP	50
CSY/100	100	CSY/100/HP	100
CSY/250	250	CSY/250/HP	250
CSY/500	500	CSY/500/HP	500
CSY/1000	1000	CSY/1000/HP	1000

JY Vacuum/Schlenk Flask with O-Ring Tap and O-Ring Ball Joint Cup



For use with Schlenk Lines and Vacuum Manifolds, available in various capacities

Product Code	Capacity (ml)	Joint Size	HP Product Code	Capacity (ml)	Joint Size
CSR/25	25	19	CSR/25/HP	25	19
CSR/50	50	19	CSR/50/HP	50	19
CSR/100	100	19	CSR/100/HP	100	19
CSR/250	250	29	CSR/250/HP	250	29
CSR/500	500	29	CSR/500/HP	500	29
CSR/1000	1000	29	CSR/1000/HP	1000	29

JY Gas Sample Tube with O-Ring Taps



Available in various capacities

Product Code	Capacity (ml)
GST/100	100
GST/125	125
GST/250	250
GST/500	500
GST/1000	1000
GST/2000	2000

JY Gas Sample Tube with O-Ring Taps & Septum



Available in various capacities

Product Code	Capacity (ml)
GSS/100	100
GSS/125	125
GSS/250	250
GSS/500	500
GSS/1000	1000
GSS/2000	2000

Different taps colours are available, contact us for more details on +44(0)1525 382277 or sales@gpescientific.co.uk

RELATED PRODUCTS

For schlenk lines, see pages 3-4

Custom options available, contact us for more information

Sample Flask, Cylindrical, with Fine Thread Tap



For use with Vacuum Manifolds and Schlenk Lines.

		High Performance (HP) Variant	
Product Code	Capacity (ml)	Product Code	Capacity (ml)
JCF/25	25	JCF/25/HP	25
JCF/50	50	JCF/50/HP	50
JCF/100	100	JCF/100/HP	100
JCF/250	250	JCF/250/HP	250
JCF/500	500	JCF/500/HP	500
JCF/1000	1000	JCF/1000/HP	1000

Sample Flask, Cylindrical, with Fine Thread Tap and B14 Socket

For schlenk lines, see pages 3-4



For use with Vacuum Manifolds and Schlenk Lines.

			High Performance (HP) Variant		
Product Code	Capacity (ml)	Joint Size	Product Code	Capacity (ml)	Joint Size
JCS/25	25	14	JCS/25	25	14
JCS/50	50	14	JCS/50	50	14
JCS/100	100	14	JCS/100	100	14
JCS/250	250	14	JCS/250	250	14
JCS/500	500	14	JCS/500	500	14
JCS/1000	1000	14	JCS/1000	1000	14

Schlenk Flask, Round Bottom with Fine Thread Tap and Socket



For use with Vacuum Manifolds and Schlenk Lines.

			High Performance (HP) Variant		
Product Code	Capacity (ml)	Joint Size	Product Code	Capacity (ml)	Joint Size
JRF/25	25	14	JRF/25/HP	25	14
JRF/50	50	19	JRF/50/HP	50	19
JRF/100	100	24	JRF/100/HP	100	24
JRF/250	250	24	JRF/250/HP	250	24
JRF/500	500	24	JRF/500/HP	500	24
JRF/1000	1000	29	JRF/1000/HP	1000	29

15mm J Young Valves also available with glass pistons. To order add suffix/glass to catalogue number.

Custom options available, contact us for more information

Schlenk Flask, Cylindrical with Fine Thread Tap and Cone



For use with Vacuum Manifolds and Schlenk Lines

Product Code	Capacity (ml)	Joint Size	High Performance (HP) Variant		
			Product Code	Capacity (ml)	Joint Size
JCC/25	25	19	JCC/25/HP	25	19
JCC/50	50	19	JCC/50/HP	50	19
JCC/100	100	24	JCC/100/HP	100	24
JCC/250	250	24	JCC/250/HP	250	24
JCC/500	500	24	JCC/500/HP	500	24
JCC/1000	1000	29	JCC/1000/HP	1000	29

Schlenk Flask, Cylindrical with Glass Tap and Cone

For schlenk lines, see pages 3-4



For use with Vacuum Manifolds and Schlenk Lines.

Product Code	Capacity (ml)	Joint Size
SCG/25	25	19
SCG/50	50	19
SCG/100	100	24
SCG/250	250	24
SCG/500	500	24
SCG/1000	1000	29

Schlenk Cap



For use with Vacuum Manifolds and Schlenk Lines.

Product Code	Joint Size
SC/19	19
SC/24	24
SC/29	29

15mm J Young Valves also available with glass pistons. To order add suffix/glass to catalogue number.

## JY Straight Through Taps



J Young Straight through taps are made in various Stopcock Sizes and thread types.

These can be custom adapted to meet your needs and are also available with glass pistons.

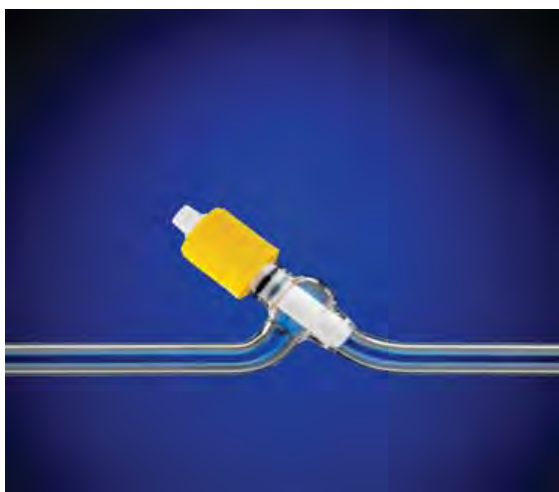
Product Code	Stopcock Size (mm)	Side Arm ID (mm)	Side Arm OD (mm)	Thread Type
POR/1	1	1.1	7	Fine
POR/2	2	2.2	7	Fine
POR/3	3	3	9	Fine
POR/4	4	4	7	Fine
POR/5	5	5	8	Fine
POR/6	6	6	9	Fine
POR/8	8	8	11	Fine
POR/10	10	10	13	Fine
POR/15	15	15.4	19	Fine
POR/20	20	19	24	Fine
POR/25	25	24	28	Fine

PTT/1	1	1.1	7	Fast
PTT/2	2	2.2	7	Fast
PTT/3	3	3	9	Fast
PTT/4	4	4	7	Fast
PTT/5	5	5	8	Fast
PTT/6	6	6	9	Fast
PTT/8	8	8	11	Fast
PTT/10	10	10	13	Fast

POR/1/HP	1	1.1	7	Fine
POR/2/HP	2	2.2	7	Fine
POR/3/HP	3	3	9	Fine
POR/4/HP	4	4	7	Fine
POR/5/HP	5	5	8	Fine
POR/6/HP	6	6	9	Fine
POR/8/HP	8	8	11	Fine
POR/10/HP	10	10	1	Fine

PTT/1/HP	1	1.1	7	Fast
PTT/2/HP	2	2.2	7	Fast
PTT/3/HP	3	3	9	Fast
PTT/4/HP	4	4	7	Fast
PTT/5/HP	5	5	8	Fast
PTT/6/HP	6	6	9	Fast
PTT/8/HP	8	8	11	Fast
PTT/10/HP	10	10	13	Fast

## JY In Line Taps



J Young In Line taps are made in various Stopcock Sizes and thread types.

These can be custom adapted to meet your needs and are also available with glass pistons.

Product Code	topcock Size (mm)	Side Arm ID (mm)	Side Arm OD (mm)	Thread Type
SPOR/1	1	1.1	7	Fine
SPOR/2	2	2.2	7	Fine
SPOR/3	3	3	9	Fine
SPOR/4	4	4	7	Fine
SPOR/5	5	5	8	Fine
SPOR/6	6	6	9	Fine
SPOR/8	8	8	11	Fine
SPOR/10	10	10	13	Fine
SPOR/15	15	15.4	19	Fine
SPOR/20	20	19	24	Fine
SPOR/25	25	24	28	Fine

SPTT/1	1	1.1	7	Fast
SPTT/2	2	2.2	7	Fast
SPTT/3	3	3	9	Fast
SPTT/4	4	4	7	Fast
SPTT/5	5	8	5	Fast
SPTT/6	6	6	9	Fast
SPTT/8	8	8	11	Fast
SPTT/10	10	10	13	Fast

SPOR/1/HP	1	1.1	7	Fine
SPOR/2/HP	2	2.2	7	Fine
SPOR/3/HP	3	3	9	Fine
SPOR/4/HP	4	4	7	Fine
SPOR/5/HP	5	5	8	Fine
SPOR/6/HP	6	6	9	Fine
SPOR/8/HP	8	8	11	Fine
SPOR/10/HP	10	10	13	Fine

SPTT/1/HP	1	1.1	7	Fast
SPTT/2/HP	2	2.2	7	Fast
SPTT/3/HP	3	3	9	Fast
SPTT/4/HP	4	4	7	Fast
SPTT/5/HP	5	5	8	Fast
SPTT/6/HP	6	6	9	Fast
SPTT/8/HP	8	8	11	Fast
SPTT/10/HP	10	10	13	Fast

15mm J Young Valves also available with glass pistons.  
To order add suffix/glass to catalogue number.

JY T Shape Taps



J Young T Shape taps are made in various Stopcock Sizes and thread types.

These can be custom adapted to meet your needs and are also available with glass pistons.

Product Code	Stopcock Size (mm)	Side Arm ID (mm)	Side Arm OD (mm)	Thread Type
POR/T/1	1	1.1	7	Fine
POR/T/2	2	2.2	7	Fine
POR/T/3	3	3	9	Fine
POR/T/4	4	4	7	Fine
POR/T/5	5	5	8	Fine
POR/T/6	6	6	9	Fine
POR/T/8	8	8	11	Fine
POR/T/10	10	10	13	Fine
POR/T/15	15	15.4	19	Fine
POR/T/20	20	19	24	Fine
POR/T/25	25	24	28	Fine

PTT/T/1	1	1.1	7	Fast
PTT/T/2	2	2.2	7	Fast
PTT/T/3	3	3	9	Fast
PTT/T/4	4	4	7	Fast
PTT/T/5	5	5	8	Fast
PTT/T/6	6	6	9	Fast
PTT/T/8	8	8	11	Fast
PTT/T/10	10	10	13	Fast

POR/T/1/HP	1	1.1	7	Fine
POR/T/2/HP	2	2.2	7	Fine
POR/T/3/HP	3	3	9	Fine
POR/T/4/HP	4	4	7	Fine
POR/T/5/HP	5	5	8	Fine
POR/T/6/HP	6	6	9	Fine
POR/T/8/HP	8	8	11	Fine
POR/T/10/HP	10	10	1	Fine

PTT/T/1/HP	1	1.1	7	Fast
PTT/T/2/HP	2	2.2	7	Fast
PTT/T/3/HP	3	3	9	Fast
PTT/T/4/HP	4	4	7	Fast
PTT/T/5/HP	5	5	8	Fast
PTT/T/6/HP	6	6	9	Fast
PTT/T/8/HP	8	8	11	Fast
PTT/T/10/HP	10	10	13	Fast

JY T-Bore Taps



J Young T Bore taps are made in various Stopcock Sizes and thread types.

These can be custom adapted to meet your needs and are also available with glass pistons.

Product Code	topcock Size (mm)	Side Arm ID (mm)	Side Arm OD (mm)	Thread Type
POR/W/1	1	1.1	7	Fine
POR/W/2	2	2.2	7	Fine
POR/W/3	3	3	9	Fine
POR/W/4	4	4	7	Fine
POR/W/5	5	5	8	Fine
POR/W/6	6	6	9	Fine
POR/W/8	8	8	11	Fine
POR/W/10	10	10	13	Fine
POR/W/15	15	15.4	19	Fine
POR/W/20	20	19	24	Fine
POR/W/25	25	24	28	Fine

PTT/W/1	1	1.1	7	Fast
PTT/W/2	2	2.2	7	Fast
PTT/W/3	3	3	9	Fast
PTT/W/4	4	4	7	Fast
PTT/W/5	5	8	5	Fast
PTT/W/6	6	6	9	Fast
PTT/W/8	8	8	11	Fast
PTT/W/10	10	10	13	Fast

POR/W/1/HP	1	1.1	7	Fine
POR/W/2/HP	2	2.2	7	Fine
POR/W/3/HP	3	3	9	Fine
POR/W/4/HP	4	4	7	Fine
POR/W/5/HP	5	5	8	Fine
POR/W/6/HP	6	6	9	Fine
POR/W/8/HP	8	8	11	Fine
POR/W/10/HP	10	10	13	Fine

PTT/W/1/HP	1	1.1	7	Fast
PTT/W/2/HP	2	2.2	7	Fast
PTT/W/3/HP	3	3	9	Fast
PTT/W/4/HP	4	4	7	Fast
PTT/W/5/HP	5	5	8	Fast
PTT/W/6/HP	6	6	9	Fast
PTT/W/8/HP	8	8	11	Fast
PTT/W/10/HP	10	10	13	Fast

15mm J Young Valves also available with glass pistons. To order add suffix/glass to catalogue number.

JY Right Angle Taps



J Young Right Angle taps are made in various Stopcock Sizes and thread types.

These can be custom adapted to meet your needs and are also available with glass pistons

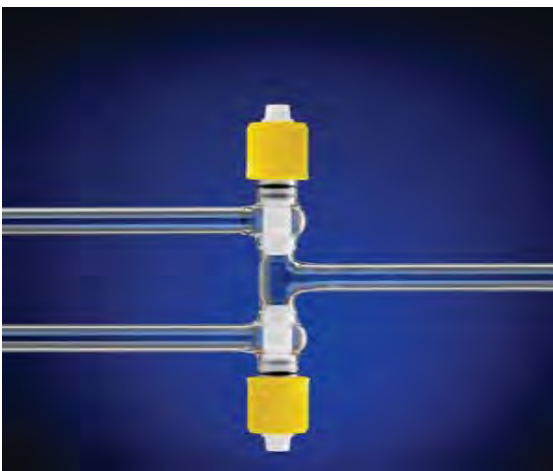
Product Code	Stopcock Size (mm)	Side Arm ID (mm)	Side Arm OD (mm)	Thread Type
POR/1/RA	1	1.1	7	Fine
POR/2/RA	2	2.2	7	Fine
POR/3/RA	3	3	9	Fine
POR/4/RA	4	4	7	Fine
POR/5/RA	5	5	8	Fine
POR/6/RA	6	6	9	Fine
POR/8/RA	8	8	11	Fine
POR/10/RA	10	10	13	Fine
POR/15/RA	15	15.4	19	Fine
POR/20/RA	20	19	24	Fine
POR/25/RA	25	24	28	Fine

PTT/1/RA	1	1.1	7	Fast
PTT/2/RA	2	2.2	7	Fast
PTT/3/RA	3	3	9	Fast
PTT/4/RA	4	4	7	Fast
PTT/5/RA	5	5	8	Fast
PTT/6/RA	6	6	9	Fast
PTT/8/RA	8	8	11	Fast
PTT/10/RA	10	10	13	Fast

POR/1/RA/HP	1	1.1	7	Fine
POR/2/RA/HP	2	2.2	7	Fine
POR/3/RA/HP	3	3	9	Fine
POR/4/RA/HP	4	4	7	Fine
POR/5/RA/HP	5	5	8	Fine
POR/6/RA/HP	6	6	9	Fine
POR/8/RA/HP	8	8	11	Fine
POR/10/RA/HP	10	10	1	Fine

PTT/1/RA/HP	1	1.1	7	Fast
PTT/2/RA/HP	2	2.2	7	Fast
PTT/3/RA/HP	3	3	9	Fast
PTT/4/RA/HP	4	4	7	Fast
PTT/5/RA/HP	5	5	8	Fast
PTT/6/RA/HP	6	6	9	Fast
PTT/8/RA/HP	8	8	11	Fast
PTT/10/RA/HP	10	10	13	Fast

JY Double Oblique Taps



J Young Double Oblique taps are made in various Stopcock Sizes and thread types.

These can be custom adapted to meet your needs and are also available with glass pistons

Product Code	topcock Size (mm)	Side Arm ID (mm)	Side Arm OD (mm)	Thread Type
POR/D/1	1	1.1	7	Fine
POR/D/2	2	2.2	7	Fine
POR/D/3	3	3	9	Fine
POR/D/4	4	4	7	Fine
POR/D/5	5	5	8	Fine
POR/D/6	6	6	9	Fine
POR/D/8	8	8	11	Fine
POR/D/10	10	10	13	Fine
POR/D/15	15	15.4	19	Fine
POR/D/20	20	19	24	Fine
POR/D/25	25	24	28	Fine

PTT/D/1	1	1.1	7	Fast
PTT/D/2	2	2.2	7	Fast
PTT/D/3	3	3	9	Fast
PTT/D/4	4	4	7	Fast
PTT/D/5	5	8	5	Fast
PTT/D/6	6	6	9	Fast
PTT/D/8	8	8	11	Fast
PTT/D/10	10	10	13	Fast

POR/D/1/HP	1	1.1	7	Fine
POR/D/2/HP	2	2.2	7	Fine
POR/D/3/HP	3	3	9	Fine
POR/D/4/HP	4	4	7	Fine
POR/D/5/HP	5	5	8	Fine
POR/D/6/HP	6	6	9	Fine
POR/D/8/HP	8	8	11	Fine
POR/D/10/HP	10	10	13	Fine

PTT/D/1/HP	1	1.1	7	Fast
PTT/D/2/HP	2	2.2	7	Fast
PTT/D/3/HP	3	3	9	Fast
PTT/D/4/HP	4	4	7	Fast
PTT/D/5/HP	5	5	8	Fast
PTT/D/6/HP	6	6	9	Fast
PTT/D/8/HP	8	8	11	Fast
PTT/D/10/HP	10	10	13	Fast

15mm J Young Valves also available with glass pistons. To order add suffix/glass to catalogue number.



JY Spherical Joint  
The O-Ring Ball Joint



Improved design, interchangeable and available with Viton or FEP Covered Viton O-Ring.

Spherical Ball Joint	Spherical Cup Joint	Shank Bore (mm)	Shank OD (mm)
GBM/12/2	GBF/12/2	2	7
GBM/12/5	GBF/12/5	5	8
GBM/18/7	GBF/18/7	7	11
GBM/18/9	GBF/18/9	9	12
GBM/28/12	GBF/28/12	12	17
GBM/28/15	GBF/28/15	15	19
GBM/35/20	GBF/35/20	20	24
GBM/40/25	GBF/40/25	25	28
GBM/51/35	GBF/51/35	35	38

JY O-Rings for Spherical Joints



The J Young O Rings suitable for use with the Spherical Joints are available with Viton or PTFE material.

Product Code	Item Description
012/V	Viton O-Ring for use with 12/2 and 12/5 size Spherical Joints
018/V	Viton O-Ring for use with 18/7 and 18/9 size Spherical Joints
028/V	Viton O-Ring for use with 28/12 and 28/15 size Spherical Joints
035/V	Viton O-Ring for use with 35/20 size Spherical Joints
040/V	Viton O-Ring for use with 40/25 size Spherical Joints
051/V	Viton O-Ring for use with 51/35 size Spherical Joints
012/P	PTFE Covered Viton O-Ring for use with 12/2 and 12/5 size Spherical Joints
018/P	PTFE Covered Viton O-Ring for use with 18/7 and 18/9 size Spherical Joints
028/P	PTFE Covered Viton O-Ring for use with 28/12 and 28/15 size Spherical Joints
035/P	PTFE Covered Viton O-Ring for use with 35/20 size Spherical Joints
040/P	PTFE Covered Viton O-Ring for use with 40/25 size Spherical Joints
051/P	PTFE Covered Viton O-Ring for use with 51/35 size Spherical Joints

JY Clips for Spherical Joints



The J Young Clips are suitable for use with the J Young Spherical Joints.

Product Code	Item Description
JC13	Spring Clip for use with 12/2 and 12/5 size Spherical Joints
JC19	Spring Clip for use with 18/7 and 18/9 size Spherical Joints
JC29	Spring Clip for use with 28/12 and 28/15 size Spherical Joints
JC35	Spring Clip for use with 35/20 size Spherical Joints
JC41	Spring Clip for use with 40/25 size Spherical Joints
JC51	Spring Clip for use with 51/35 size Spherical Joints
TJC/13	Thumb Screw Lock Clip for use with 12/2 and 12/5 size Spherical Joints
TJC/19	Thumb Screw Lock Clip for use with 18/7 and 18/9 size Spherical Joints
TJC/29	Thumb Screw Lock Clip for use with 28/12 and 28/15 size Spherical Joints
TJC/35	Thumb Screw Lock Clip for use with 35/20 size Spherical Joints
TJC/41	Thumb Screw Lock Clip for use with 40/25 size Spherical Joints

For applications where less critical demands apply

- Self retaining keys
- No ground surface
- Temp range: -18°C to +60°C
- Only PTFE and glass in flow
- Bore size: 0 - 5mm
- Never leaks
- No hold up of fluids
- Interchangeable
- No contamination grease
- Never seizes

## Straight Through



Product Code	Side Arm I.D (mm)	Side Arm O.D (mm)	Thread Type
GP/5	5	8	Fast

## Right Angle



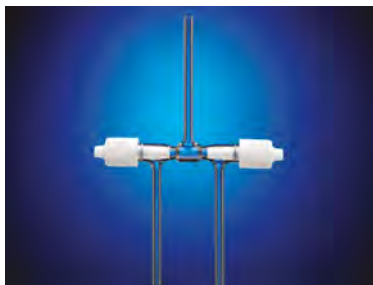
Product Code	Side Arm I.D (mm)	Side Arm O.D (mm)	Thread Type
GP/5/RA	5	8	Fast

## Burette Single Pattern



Product Code	Side Arm I.D (mm)	Side Arm O.D (mm)	Thread Type
GP/N/5	2.7	7	Fast

## Double Pattern



Product Code	Side Arm I.D (mm)	Side Arm O.D (mm)	Thread Type
GP/D/RA	5	8	Fast

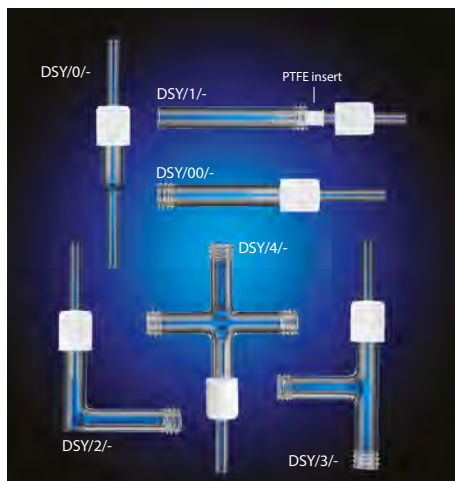
## Burette Double Pattern



Product Code	Side Arm I.D (mm)	Side Arm O.D (mm)	Thread Type
GP/D/10	2.7	7	Fast

15mm J Young Valves also available with glass pistons. To order add suffix/glass to catalogue number.

PTFE High Vacuum Screw Cap Joints



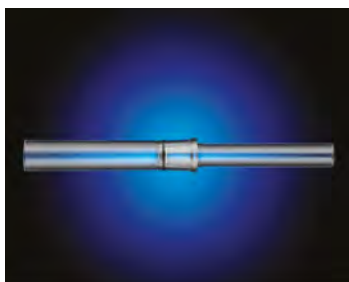
Product Code	Thread Size (mm)	Tubing I.D (mm)	Tubing O.D (mm)	PTFE Insert Bore (mm)
DSY/0/1	13	5	8	8
DSY/00/1	13	5	8	8
DSY/1/1	13	5	8	8
DSY/2/1	13	5	8	8
DSY/3/1	13	5	8	8
DSY/4/1	13	5	8	8
DSY/0/2	19	8	11	11
DSY/00/2	19	8	11	11
DSY/1/2	19	8	11	11
DSY/2/2	19	8	11	11
DSY/3/2	19	8	11	11
DSY/4/2	19	8	11	11

These joints are supplied with glass insert tubing and PTFE insert and screw cap.

Our PTFE High Vacuum Screw Cap Joints have been made to enable you to connect the various designs of J Young Stopcock sizes POR/5 and POR/8 without glassblowing. The stopcock arm is held rigid but can be adjusted by loosening the screw cap.

Each screwthread is supplied with glass insert tubing, PTFE insert and screw cap. For example, DSY/4/2 is supplied with 4 screw caps, 4 inserts and 4 insert tubes.

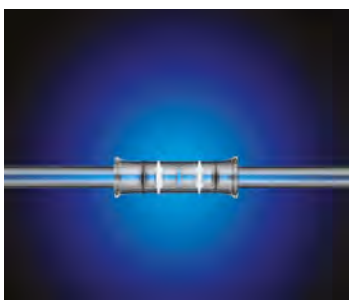
Greaseless Conical Joints & O-Ring Tapered Joints



Cones		Sockets		Spare O-Rings for High Vacuum O-Ring Joints	
Product Code	Joint Size	Product Code	Joint Size	Product Code	Description
ORB/10	B10	ORS/10	B10	OS/5/VITON	Viton O-Ring for use with PSJ/2&5 and PCJ/2&5
ORB/14	B14	ORS/14	B14	OS/7/VITON	Viton O-Ring for use with PSJ/10 and PCJ/10
ORB/19	B19	ORS/19	B19	OS/13/VITON	Viton O-Ring for use with PSJ/16 and PCJ/16
ORB/24	B24	ORS/24	B24	OS/5/PERFLUORO	Perfluoro O-Ring for use with PSJ/2&5 and PCJ/2&5
ORB/29	B29	ORS/29	B29	OS/7/PERFLUORO	Perfluoro O-Ring for use with PSJ/10 and PCJ/10
ORB/34	B34	ORS/34	B34	OS/13/PERFLUORO	Perfluoro O-Ring for use with PSJ/16 and PCJ/16

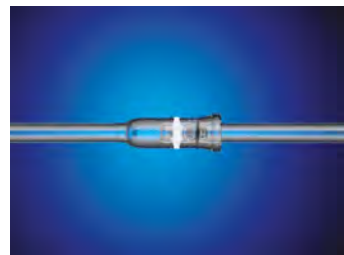
Greaseless Conical Joints consist of a clear glass cone fitted with a Viton O-Ring and a clear glass socket. Vacuum 10-6 Torr. Order parts separately.

High Vacuum Sliding Joints



Product Code	Capacity (ml)	Arm Bore (mm)	O-Ring Size (mm)	O-Ring Material
PSJ/2	10 ID	2 CAP*	OS/5	Viton
PSJ/5	10 ID	5 mm	OS/5	Viton
PSJ/10	14 ID	10 mm	OS/7	Viton
PSJ/16	25 ID	16 mm	OS/13	Viton

High Vacuum Cylindrical Joints

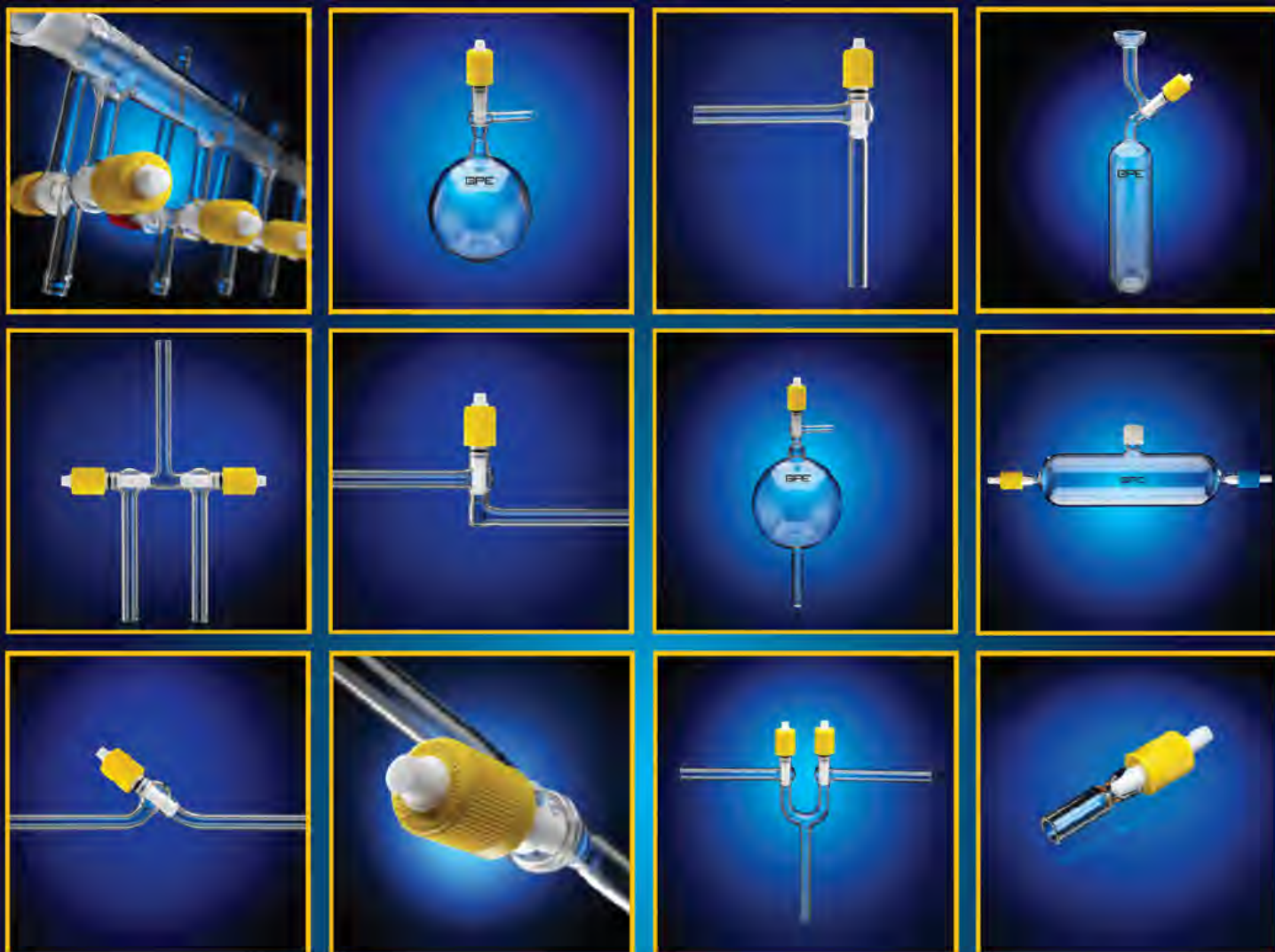


Product Code	Capacity (ml)	Arm Bore (mm)	O-Ring Size (mm)	O-Ring Material
PCJ/2	10 ID	2 CAP*	OS/5	Viton
PCJ/5	10 ID	5 mm	OS/5	Viton
PCJ/10	14 ID	10 mm	OS/7	Viton
PCJ/16	25 ID	16 mm	OS/13	Viton

High Vacuum O-Ring Joints consist of a Viton O-Ring seal in a precision bore glass cylinder. This allows you to assemble in-situ by sliding one way and then another (PSJ) or with the cylinder joined to one arm (PCJ).  
\* 2mm Capillary Tubing

# J Young

Exclusively Available from GPE Scientific



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