

Section 20

Rotoflux Rotary Unions

20.002	Water, Steam & Hot Oil
20.003	Continuous Casting
20.003	Air, Vacuum & Hydraulic Oil
20.004	Shaft Mounting
20.004	Stainless Steel
20.005	High Speed
20.005	High Pressure & High Speed
20.006	High Speed & Dry Run without Wear
20.006	High Pressure & Low Speed



Simple in design, competitively priced and suitable for water, steam and hot oil applications.

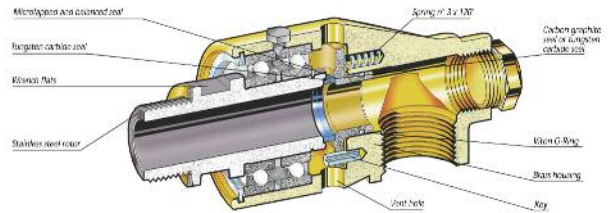
SPECIFICATIONS

	Max. Pressure	Max. Temp.
Water:	750 PSI	350°F
Steam Pressure:	120 PSI	330°F
Hot Oil:	100 PSI	395°F

	Max. Rotation Speed
1/4"-3/4":	3,500 RPM
1":	3,000 RPM

MATERIALS

Housing Material:	Brass
Internal Body / Rotor:	Stainless Steel AISI 420
Standard Seals:	Carbon Graphite to Tungsten Carbide



Other sizes available on request
Flanged and Heavy Duty Unions also available
Contact distributor for further information



**SINGLE PASSAGE UNIONS
RIGHT HAND THREAD**

1500

PART NUMBER	ROTOR SIZE	LENGTH	HEX A/F	PRICE
RS08300-01R	G 1/4" BSP	88 mm	17	£95.55
RS10300-01R	G 3/8" BSP	107 mm	17	£102.90
RS15300-01R	G 1/2" BSP	120 mm	24	£134.76
RS20300-01R	G 3/4" BSP	138 mm	30	£176.40
RS25300-01R	G 1" BSP	163 mm	36	£225.40



**SINGLE PASSAGE UNIONS
LEFT HAND THREAD**

1500

PART NUMBER	ROTOR SIZE	LENGTH	HEX A/F	PRICE
RS08300-02L	G 1/4" BSP	88 mm	17	£95.55
RS10300-02L	G 3/8" BSP	107 mm	17	£102.90
RS15300-02L	G 1/2" BSP	120 mm	24	£134.76
RS20300-02L	G 3/4" BSP	138 mm	30	£176.40
RS25300-02L	G 1" BSP	163 mm	36	£225.40



**DOUBLE PASSAGE STATIONARY SIPHON
RIGHT HAND THREAD**

1500

PART NUMBER	ROTOR SIZE	LENGTH	HEX A/F	PRICE
RS103001R80	3/8" BSP	130 mm	17	£115.15
RS153001R80	1/2" BSP	146 mm	24	£147.00
RS203001R80	3/4" BSP	170 mm	30	£191.10
RS253001R80	1" BSP	198 mm	36	£237.66



**DOUBLE PASSAGE STATIONARY SIPHON
LEFT HAND THREAD**

1500

PART NUMBER	ROTOR SIZE	LENGTH	HEX A/F	PRICE
RS103002L80	3/8" BSP	130 mm	17	£115.15
RS153002L80	1/2" BSP	146 mm	24	£147.00
RS203002L80	3/4" BSP	170 mm	30	£191.10
RS253002L80	1" BSP	198 mm	36	£237.66



**DOUBLE PASSAGE ROTATING SIPHON
RIGHT HAND THREAD**

1500

PART NUMBER	ROTOR SIZE	LENGTH	HEX A/F	PRICE
RS103001R81	3/8" BSP	130 mm	17	£115.15
RS153001R81	1/2" BSP	146 mm	24	£147.00
RS203001R81	3/4" BSP	170 mm	30	£191.10
RS253001R81	1" BSP	198 mm	36	£237.66



**DOUBLE PASSAGE ROTATING SIPHON
LEFT HAND THREAD**

1500

PART NUMBER	ROTOR SIZE	LENGTH	HEX A/F	PRICE
RS103002L81	3/8" BSP	130 mm	17	£115.15
RS153002L81	1/2" BSP	146 mm	24	£147.00
RS203002L81	3/4" BSP	170 mm	30	£191.10
RS253002L81	1" BSP	198 mm	36	£237.66



**ELBOW FOR STATIONARY SIPHON
FOR USE WITH DOUBLE PASSAGE UNIONS**

1500

PART NUMBER	THREAD SIZE	PRICE
RS10-800	3/8" BSP	£14.70
RS15-800	1/2" BSP	£14.70
RS20-800	3/4" BSP	£14.70
RS25-800	1" BSP	£14.70



**ELBOW FOR ROTATING SIPHON
FOR USE WITH DOUBLE PASSAGE UNIONS**

1500

PART NUMBER	THREAD SIZE	PRICE
RS10-810	3/8" BSP	£14.70
RS15-810	1/2" BSP	£14.70
RS20-810	3/4" BSP	£14.70
RS25-810	1" BSP	£14.70



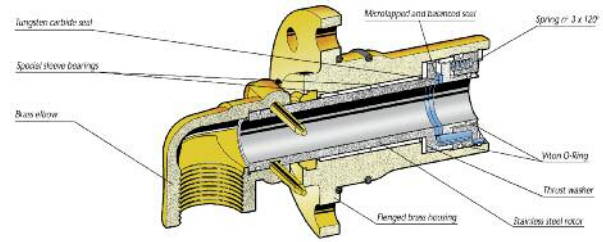
Rotary unions specifically designed for continuous casting applications.

SPECIFICATIONS FOR WATER

Max Pressure: 150 PSI
 Max Temperature: 250°F
 Max Rotation Speed: 100 RPM

MATERIALS

Housing Material: Brass
 Internal Body / Rotor: Stainless Steel AISI 420
 Seals: Tungsten Carbide



SINGLE PASSAGE UNIONS

1500

PART NUMBER	PIPE SIZE	LENGTH	PRICE
RZ2030160Z	G 3/4" BSP	130.0 mm	POA
RZ2030150Z	3/4" NPT	130.0 mm	POA
RZ2530160Z	G 1" BSP	149.0 mm	POA
RZ2530150Z	1" NPT	149.0 mm	POA
RZ4030160Z	G 1.1/2" BSP	176.5 mm	POA
RZ4030150Z	1.1/2" NPT	176.5 mm	POA

DOUBLE PASSAGE UNIONS

1500

PART NUMBER	PIPE SIZE	LENGTH	PRICE
RZ253061Z80	G 3/4" BSP	213.0 mm	POA
RZ253051Z80	3/4" NPT	213.0 mm	POA
RZ403061Z80	G 1" BSP	243.5 mm	POA
RZ403051Z80	1" NPT	243.5 mm	POA

UNIONS FOR AIR, VACUUM AND HYDRAULIC OIL

Simple in design, competitively priced and suitable for many applications.

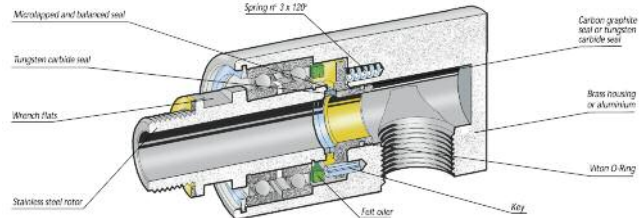
SPECIFICATIONS

Air: Max. Pressure 150 PSI, Max. Temp. 250°F, Max. Vacuum 28" Hg
 Oil: Max. Pressure 750 PSI, Max. Temp. 250°F

Max. Rotation Speed
 1/8"-3/4": 3,500 RPM, 1": 3,000 RPM

MATERIALS

Housing Material: Brass or Aluminium
 Internal Body / Rotor: Stainless Steel AISI 420
 Standard Seals: Carbon Graphite to Tungsten Carbide



Other sizes available on request
 Flanged and Heavy Duty Unions also available
 Contact distributor for further information



**SINGLE PASSAGE UNIONS FOR AIR & VACUUM
 RIGHT HAND THREAD**

1500

PART NUMBER	PIPE SIZE	LENGTH	HEX A/F	PRICE
RT06302-01R	G 1/4" BSP	73 mm	15	£85.75
RT08302-01R	G 1/4" BSP	88 mm	17	£95.55
RT10302-01R	G 3/8" BSP	107 mm	17	£102.90
RT15302-01R	G 1/2" BSP	120 mm	24	£134.76
RT2030201R	G 3/4" BSP	138 mm	30	£178.86
RT2530201R	G 1" BSP	163 mm	36	£225.40

**SINGLE PASSAGE UNIONS FOR AIR & VACUUM
 LEFT HAND THREAD**

1500

PART NUMBER	PIPE SIZE	LENGTH	HEX A/F	PRICE
RT0630202L	G 1/4" BSP	73 mm	15	£85.75
RT0830202L	G 1/4" BSP	88 mm	17	£95.55
RT1030202L	G 3/8" BSP	107 mm	17	£102.90
RT1530202L	G 1/2" BSP	120 mm	24	£134.76
RT2030202L	G 3/4" BSP	138 mm	30	£178.86
RT2530202L	G 1" BSP	163 mm	36	£225.40

**SINGLE PASSAGE UNIONS FOR OIL
 RIGHT HAND THREAD**

1500

PART NUMBER	PIPE SIZE	LENGTH	HEX A/F	PRICE
RT08301-01R	G 1/4" BSP	88 mm	17	£105.35
RT10301-01R	G 3/8" BSP	98 mm	17	£112.70



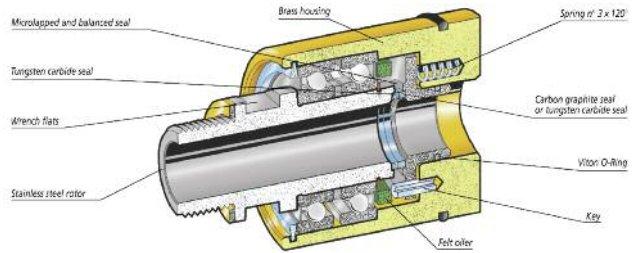
This union can be mounted inside the shaft or cylinder to reduce the extension.

SPECIFICATIONS

	Max. Pressure	Max. Temp.	Max. Vacuum
Air:	150 PSI	250°F	28" Hg
Oil:	750 PSI	250°F	
Water:	750 PSI	250°F	
Max. Rotation Speed:		1/8" - 3/4"	3,500 RPM
		1"	3,000 RPM

MATERIALS

Housing Material: Brass
 Internal Body / Rotor: Stainless Steel AISI 420
 Standard Seals: Carbon Graphite to Tungsten Carbide



Other sizes available on request



**IN THE SHAFT MOUNTING UNIONS
RIGHT HAND THREAD**

PART NUMBER	ROTOR SIZE	LENGTH	HEX A/F	PRICE
RV0630201R	G 1/4" BSP	72 mm	15	£85.75
RV0830201R	G 1/4" BSP	78 mm	17	£115.15
RV1030201R	G 3/8" BSP	91 mm	17	£122.50
RV1530201R	G 1/2" BSP	96 mm	24	£161.70
RV2030201R	G 3/4" BSP	141 mm	30	£183.75
RV2530201R	G 1" BSP	159 mm	36	£232.74

**IN THE SHAFT MOUNTING UNIONS
LEFT HAND THREAD**

PART NUMBER	ROTOR SIZE	LENGTH	HEX A/F	PRICE
RV0630202L	G 1/4" BSP	72 mm	15	£85.75
RV0830202L	G 1/4" BSP	78 mm	17	£115.15
RV1030202L	G 3/8" BSP	91 mm	17	£122.50
RV1530202L	G 1/2" BSP	96 mm	24	£161.70
RV2030202L	G 3/4" BSP	141 mm	30	£183.75
RV2530202L	G 1" BSP	159 mm	36	£232.74

UNIONS IN STAINLESS STEEL

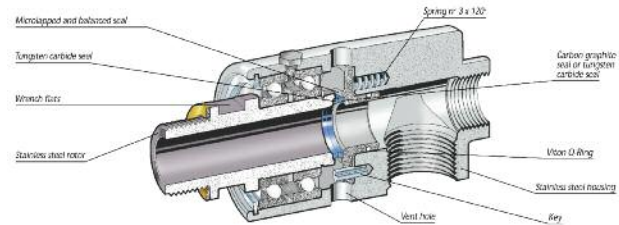
Stainless steel unions are suitable for chemical, pharmaceutical and food industries.

SPECIFICATIONS FOR LIQUID

Max Pressure:	750 PSI		
Max Temperature:	300°F		
Max. Rotation Speed:	1/4" - 3/4"	3,500 RPM	
	1"	3,000 RPM	

MATERIALS

Housing Material: Stainless Steel AISI 420
 Internal Body / Rotor: Stainless Steel AISI 420
 Standard Seals: Carbon Graphite to Tungsten Carbide



Other sizes available on request
 Flanged and Heavy Duty Unions also available
 Contact distributor for further information



**SINGLE PASSAGE UNIONS
RIGHT HAND THREAD**

PART NUMBER	ROTOR SIZE	LENGTH	HEX A/F	PRICE
RF0830001R	G 1/4" BSP	88 mm	17	£183.75
RF1030001R	G 3/8" BSP	103 mm	17	£196.00
RF1530001R	G 1/2" BSP	115 mm	24	£235.20
RF2030001R	G 3/4" BSP	136 mm	30	£289.11
RF2530001R	G 1" BSP	169 mm	36	£428.76

**SINGLE PASSAGE UNIONS
LEFT HAND THREAD**

PART NUMBER	ROTOR SIZE	LENGTH	HEX A/F	PRICE
RF0830002L	G 1/4" BSP	88 mm	17	£183.75
RF1030002L	G 3/8" BSP	103 mm	17	£196.00
RF1530002L	G 1/2" BSP	115 mm	24	£235.20
RF2030002L	G 3/4" BSP	136 mm	30	£289.11
RF2530002L	G 1" BSP	169 mm	36	£428.76



These unions, are used for the passage of coolant through machine tool spindles rotating at high speeds.

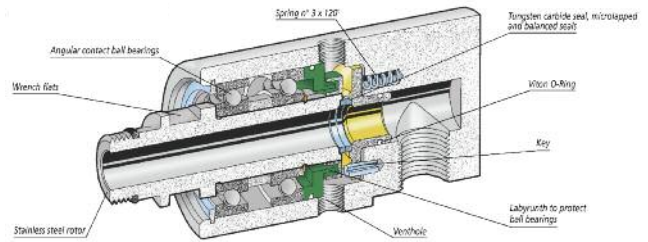
SPECIFICATIONS

	<u>Model A08</u>	<u>Model A10</u>
Max. Pressure:	1450 PSI	600 PSI
Max. Temperature:	250°F	250°F
Max. Rotation Speed:	15,000 RPM	10,000 RPM

	<u>Model B08</u>	<u>Model B10</u>
Max. Pressure:	1450 PSI	1000 PSI
Max. Temperature:	250°F	250°F
Max. Rotation Speed:	20,000 RPM	20,000 RPM

MATERIALS

Housing Material:	Aluminium
Internal Body / Rotor:	Stainless Steel AISI 420
Standard Seals:	Tungsten Carbide



**STRAIGHT THROUGH UNIONS
RIGHT HAND THREAD**



1500

PART NUMBER	ROTOR SIZE	LENGTH	HEX A/F	PRICE
RA08302-04R	M16 x 1.5 PT18	108 mm	17	£245.01
RA10302-04R	M16 x 1.5 PT18	110 mm	17	£151.90
RB08302-04R	M16 x 1.5 PT18	108 mm	17	£367.51
RB10302-04R	M16 x 1.5 PT18	110 mm	17	£367.51

**STRAIGHT THROUGH UNIONS
LEFT HAND THREAD**



1500

PART NUMBER	ROTOR SIZE	LENGTH	HEX A/F	PRICE
RA08302-05L	M16 x 1.5 PT18	108 mm	17	£245.01
RA10302-05L	M16 x 1.5 PT18	110 mm	17	£151.90
RB08302-05L	M16 x 1.5 PT18	108 mm	17	£367.51
RB10302-05L	M16 x 1.5 PT18	110 mm	17	£367.51

**90° UNIONS
RIGHT HAND THREAD**



1500

PART NUMBER	ROTOR SIZE	LENGTH	HEX A/F	PRICE
RA08301-04R	M16 x 1.5 PT18	91 mm	17	£245.01
RA10301-04R	M16 x 1.5 PT18	110 mm	17	£151.90
RB08301-04R	M16 x 1.5 PT18	91 mm	17	£367.51
RB10301-04R	M16 x 1.5 PT18	110 mm	17	£367.51

**90° UNIONS
LEFT HAND THREAD**



1500

PART NUMBER	ROTOR SIZE	LENGTH	HEX A/F	PRICE
RA08301-05L	M16 x 1.5 PT18	91 mm	17	£245.01
RA10301-05L	M16 x 1.5 PT18	110 mm	17	£151.90
RB08301-05L	M16 x 1.5 PT18	91 mm	17	£367.51
RB10301-05L	M16 x 1.5 PT18	110 mm	17	£367.51

UNIONS FOR HIGH PRESSURE AND HIGH SPEED APPLICATIONS

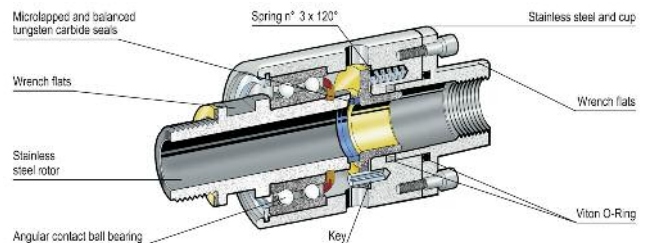
These unions are for use in high pressure and high speed fluid applications.

SPECIFICATIONS FOR WATER AND OIL

Max Pressure:	5700 PSI
Max Temperature:	250°F
Max Rotation Speed:	1,500 RPM

MATERIALS

Housing Material:	Stainless Steel AISI 420
Internal Body / Rotor:	Stainless Steel AISI 420
Seals:	Tungsten Carbide



**STRAIGHT THROUGH UNIONS
RIGHT HAND THREAD**



1500

PART NUMBER	ROTOR SIZE	LENGTH	HEX A/F	PRICE
RC08301-01R	G 1/4" BSP	99 mm	17 / 27	£235.20
RC10301-01R	G 3/8" BSP	99 mm	22 / 27	£247.45
RC15301-01R	G 1/2" BSP	106 mm	24 / 27	£259.71



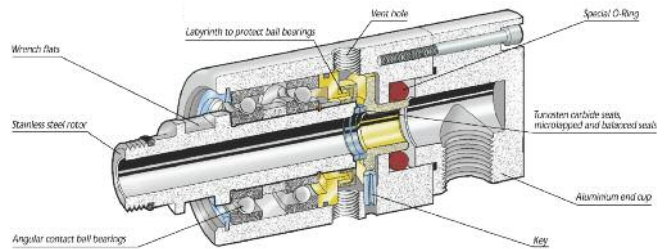
These special rotary unions allow the flow of the coolant through the spindles of machine tools and they are also able to run dry at high speed.

SPECIFICATIONS

	<u>Model A08</u>	<u>Model A10</u>
Max. Pressure:	1450 PSI	600 PSI
Max. Temperature:	250°F	250°F
Max. Rotation Speed:	15,000 RPM	10,000 RPM
	<u>Model B08</u>	<u>Model B10</u>
Max. Pressure:	1450 PSI	1000 PSI
Max. Temperature:	250°F	250°F
Max. Rotation Speed:	20,000 RPM	20,000 RPM

MATERIALS

Housing Material: Stainless Steel
 Internal Body / Rotor: Stainless Steel AISI 420
 Standard Seals: Tungsten Carbide



**STRAIGHT THROUGH UNIONS
RIGHT HAND THREAD**



1500

PART NUMBER	ROTOR SIZE	LENGTH	HEX A/F	PRICE
RA08502-04R	M16 x 1.5 PT18	108 mm	17	£367.51
RA10702-04R	M16 x 1.5 PT18	111 mm	17	£245.01
RB08502-04R	M16 x 1.5 PT18	108 mm	17	£490.01
RB10702-04R	M16 x 1.5 PT18	111 mm	17	£514.51

**STRAIGHT THROUGH UNIONS
LEFT HAND THREAD**



1500

PART NUMBER	ROTOR SIZE	LENGTH	HEX A/F	PRICE
RA08502-05L	M16 x 1.5 PT18	108 mm	17	£367.51
RA10702-05L	M16 x 1.5 PT18	111 mm	17	£245.01
RB08502-05L	M16 x 1.5 PT18	108 mm	17	£490.01
RB10702-05L	M16 x 1.5 PT18	111 mm	17	£514.51

**90° UNIONS
RIGHT HAND THREAD**



1500

PART NUMBER	ROTOR SIZE	LENGTH	HEX A/F	PRICE
RA08501-04R	M16 x 1.5 PT18	91 mm	17	£367.51
RA10701-04R	M16 x 1.5 PT18	119 mm	17	£245.01
RB08501-04R	M16 x 1.5 PT18	91 mm	17	£490.01
RB10701-04R	M16 x 1.5 PT18	119 mm	17	£514.51

**90° UNIONS
LEFT HAND THREAD**



1500

PART NUMBER	ROTOR SIZE	LENGTH	HEX A/F	PRICE
RA08501-05L	M16 x 1.5 PT18	91 mm	17	£367.51
RA10701-05L	M16 x 1.5 PT18	119 mm	17	£245.01
RB08501-05L	M16 x 1.5 PT18	91 mm	17	£490.01
RB10701-05L	M16 x 1.5 PT18	119 mm	17	£514.51

UNIONS FOR HIGH PRESSURE AND LOW SPEED APPLICATIONS

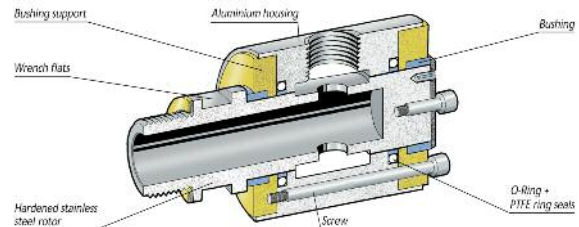
These unions are for use in high pressure and low speed fluid applications.

Specifications

	<u>Max. Pressure</u>	<u>Max. Temp.</u>	<u>Max. Rotation</u>
Air:	150 PSI	250°F	250 RPM
Water:	150 PSI	250°F	250 RPM
Oil:	3600 PSI	250°F	10 RPM
Vacuum:	28" Hg	250°F	250 RPM

Materials

Housing Material: Aluminium
 Internal Body / Rotor: Stainless Steel Hardened
 Seals: PTFE & 'O' Ring



**STRAIGHT THROUGH UNIONS
RIGHT HAND THREAD**



1500

PART NUMBER	ROTOR SIZE	LENGTH	HEX A/F	PRICE
RM11000001R	G 3/8" BSP	86 mm	22	£149.46
RM11500001R	G 1/2" BSP	86 mm	22	£205.80



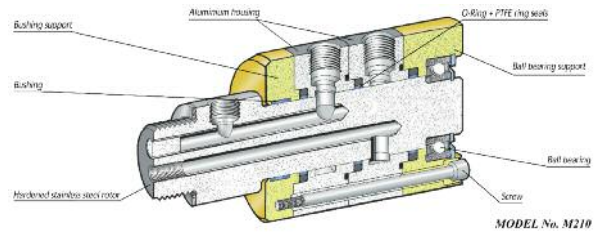
These unions are designed to operate winding / unwinding reels and revolving tables, where high fluid pressure and low rotation speed are needed.

Specifications

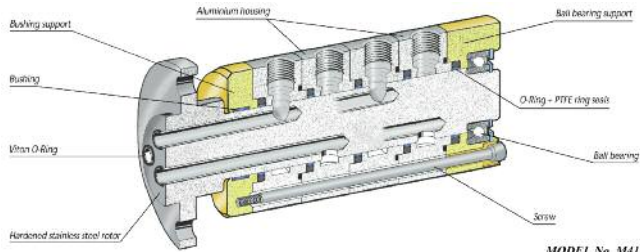
	Max. Pressure	Max. Temp.	Max. Rotation
Air:	150 PSI	250°F	250 RPM
Water:	150 PSI	250°F	250 RPM
Oil:	3600 PSI	250°F	10 RPM
Vacuum:	2.8" Hg	250°F	250 RPM

Materials

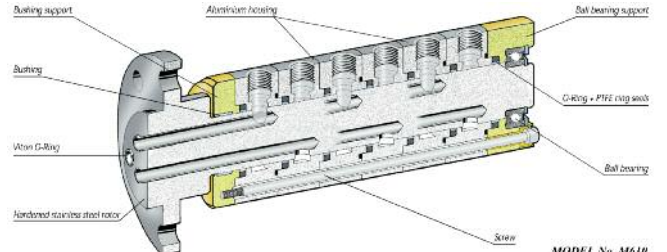
Housing Material: Aluminium & Brass
 Internal Body / Rotor: Stainless Steel Hardened
 Seals: PTFE & 'O' Ring



MODEL No. M210



MODEL No. M410



MODEL No. M610

**DOUBLE PASSAGE UNIONS
RIGHT HAND THREAD**



1500

Rotor with one straight through and one 90° passage

PART NUMBER	ROTOR SIZE	LENGTH	HEX A/F	PRICE
RM21000001R	G 1" BSP	169 mm	48	£494.91

**DOUBLE PASSAGE UNIONS
RIGHT HAND THREAD**



1500

Rotor with two 90° passages

PART NUMBER	ROTOR SIZE	LENGTH	HEX A/F	PRICE
RM21000201R	G 1" BSP	169 mm	48	£494.91

**DOUBLE PASSAGE UNIONS
RIGHT HAND THREAD**



1500

Rotor with two straight through passages

PART NUMBER	ROTOR SIZE	LENGTH	HEX A/F	PRICE
RM21000301R	G 1" BSP	169 mm	48	£494.91

FLANGED FOUR PASSAGE UNIONS



1500

PART NUMBER	PIPE SIZE	LENGTH	PRICE
RM41000003F	G 3/8" BSP	200 mm	£835.46

FLANGED SIX PASSAGE UNIONS



1500

PART NUMBER	PIPE SIZE	LENGTH	PRICE
RM61000003F	G 3/8" BSP	258 mm	£1078.02

