

Carrying the Legacy Forward:

# Race Engine Components

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Competition Valve Specialists

Design - Forging

Machining - Heat Treatment

Issue 50a

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Founded in 1962, **Race Engine Components** has a long and proud history rooted in British motorsport. Built on decades of race preparation expertise and hands-on involvement with iconic British Sports Racing Cars, the business has been a trusted name in performance engine components for generations.



Our story began with **Paul Ivey**, whose career took off as an apprentice at the renowned Downton Engineering. His passion and technical excellence led him to contribute significantly to the development of the Cooper 'S', Jaguar engines, and the Lotus Twin Cam — legendary powerplants of their time. From those early days, Paul's commitment to innovation and performance laid the foundation for what would become a dedicated tuning parts company focused on supplying precision engine valves to the growing racing market.

In the early 1980s, Race Engine Components joined forces with **G&S Valves**, one of the UK's most respected specialised engine valve manufacturers. Together, we have developed an extensive range of high-performance components — valves, retainers, and collets — designed to withstand the demands of modern, high-revving engines operating at over 16,000 rpm.

With over 78 years of combined service to the racing world, the partnership between Race Engine Components and G&S Valves has powered success across all levels of motorsport — from Formula 1 and Le Mans to IndyCar, the Isle of Man TT, World Supersport, and club-level championships worldwide.



Following Paul's passing, the company is now led by his son, **Jon Paul (JP) Ivey**, who remains deeply committed to his father's values of quality, performance, and engineering excellence. As we move forward, JP and the team remain focused on innovation and reliability, ensuring that every part we produce continues to honour the legacy that Paul built.

**We thank our customers — old and new — for their continued trust and support, and we wish you all a successful and winning season ahead.**

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Please note this is only a small percentage of our stock valves that we currently hold at Race Engine Components Ltd. Part numbers listed with REC, we have drawings and have made, but do not stock. Valves O/E Titanium are replacements made from 1.4882 Austenitic Stainless Steel. For any other valves not listed, please do not hesitate to call:

Race Engine Components:  
Phone: +44 (0) 1902 373770, Fax: +44 (0) 1902 373772 or Email: [recvalves@gmail.com](mailto:recvalves@gmail.com)

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| Part No. | Application           | Head Diameter | Type    | Comments      |
|----------|-----------------------|---------------|---------|---------------|
| REC 372  | Alfasud Sprint 1500cc | 1.570"/40.0mm | Inlet   | Flat 4 Engine |
| REC 373  | Alfasud Sprint 1500cc | 1.305"/33.0mm | Exhaust | Flat 4 Engine |

|         |                                |               |         |                 |
|---------|--------------------------------|---------------|---------|-----------------|
| REC 612 | Alfa Romeo Alfetta GTV6 3.0 SA | 1.752"/44.5mm | Inlet   | O/S H/D         |
| REC 613 | Alfa Romeo Alfetta GTV6 3.0 SA | 1.536"/39.0mm | Exhaust | O/S H/D + 0.5mm |

## Austin, Leyland, MG, Morris - (Retainers, Collets and Guides Available) (PTO)

### A-Series Engine - Rimflow (SV)

| Part No.  | Application               | Head Diameter | Type    | Comments       |
|-----------|---------------------------|---------------|---------|----------------|
| SV 300/1  | 850cc/998cc/1098cc Engine | 1.093"/27.7mm | Inlet   | 88G459 Collets |
| SV 300/2  |                           | 1.159"/29.4mm | Inlet   | 88G459 Collets |
| SV 300/3  |                           | 1.218"/30.9mm | Inlet   | 88G459 Collets |
| SV 300/4  |                           | 1.250"/31.7mm | Inlet   | 88G459 Collets |
| SV 300/50 | 850cc/998cc/1098cc Engine | 1.000"/25.4mm | Exhaust | 88G459 Collets |
| SV 300/51 |                           | 1.060"/26.9mm | Exhaust | 88G459 Collets |

|           |                       |               |         |                |
|-----------|-----------------------|---------------|---------|----------------|
| SV 300/6  | 1275cc Engine Rimflow | 1.312"/33.3mm | Inlet   | 88G459 Collets |
| SV 300/7  |                       | 1.401"/35.6mm | Inlet   | 88G459 Collets |
| SV 300/8  |                       | 1.440"/36.6mm | Inlet   | 88G459 Collets |
| SV 300/52 | 1275cc Engine Rimflow | 1.141"/29.0mm | Exhaust | 88G459 Collets |
| SV 300/53 |                       | 1.220"/31.0mm | Exhaust | 88G459 Collets |
| SV 300/54 |                       | 1.259"/32.0mm | Exhaust | 88G459 Collets |

### A-Series Engine

|         |                                   |               |         |                                                      |
|---------|-----------------------------------|---------------|---------|------------------------------------------------------|
| REC 121 | 850cc/998cc/1098cc                | 1.312"/33.3mm | Inlet   | Single Groove, 12G295 Head, 88G459 Collets           |
| REC 101 | 850cc/998cc/1098cc Formula Junior | 1.343"/34.1mm | Inlet   | Single Groove, <b>Largest H/D no Pocketing Block</b> |
| REC 122 | 850cc/998cc/1098cc                | 1.060"/26.9mm | Exhaust | Single Groove, 12G295 Head, 88G459 Collets           |
| REC 102 | 850cc/998cc/1098cc Formula Junior | 1.141"/29.0mm | Exhaust | Single Groove, 12G295 Head, 88G459 Collets           |

|         |              |                |         |                                 |
|---------|--------------|----------------|---------|---------------------------------|
| REC 129 | Works Cooper | 1.200"/30.5mm  | Inlet   | Janspeed Engine, 88G459 Collets |
| REC 131 |              | 1.367"/34.75mm | Inlet   | Janspeed Engine, 88G459 Collets |
| REC 130 | Works Cooper | 1.070"/27.1mm  | Exhaust | Janspeed Engine, 88G459 Collets |
| REC 132 |              | 1.205"/30.5mm  | Exhaust | Janspeed Engine, 88G459 Collets |

|         |                                |               |         |                                                     |
|---------|--------------------------------|---------------|---------|-----------------------------------------------------|
| REC 103 | Cooper 'S' (Mk1) 1275cc Engine | 1.401"/35.6mm | Inlet   | Single Groove, <b>AEGL 63 Head</b> , 88G459 Collets |
| REC 104 | Cooper 'S' (Mk1) 1275cc Engine | 1.220"/31.0mm | Exhaust | Single Groove, <b>AEGL 63 Head</b> , 88G459 Collets |

|           |                                  |                |       |                                                  |
|-----------|----------------------------------|----------------|-------|--------------------------------------------------|
| REC 126   | Cooper 'S' MK2 / Midget / Sprite | 1.310"/33.3mm  | Inlet | Undercut Stem, Single Groove, 88G459 Collets     |
| REC 105   |                                  | 1.401"/35.6mm  | Inlet | Single Groove, 88G459 Collets                    |
| REC 120   |                                  | 1.401"/35.6mm  | Inlet | Undercut Stem, Single Groove, 88G459 Collets     |
| REC 134/1 |                                  | 1.401"/35.6mm  | Inlet | 6mm Stem, Single Groove, <b>Kit, LK6 Collets</b> |
| REC 119   |                                  | 1.440"/36.6mm  | Inlet | Undercut Stem, Single Groove, 88G459 Collets     |
| REC 135/1 |                                  | 1.440"/36.6mm  | Inlet | 6mm Stem, Single Groove, <b>Kit, LK6 Collets</b> |
| REC 109   |                                  | 1.462"/37.15mm | Inlet | Single Groove, 88G459 Collets                    |
| REC 110   |                                  | 1.485"/37.7mm  | Inlet | Single Groove, 88G459 Collets                    |
| REC 118   |                                  | 1.485"/37.7mm  | Inlet | Undercut Stem, Single Groove, 88G459 Collets     |
| REC 111   |                                  | 1.525"/38.75mm | Inlet | Single Groove, 88G459 Collets                    |



## A-Series Engine

| Part No.  | Application                      | Head Diameter | Type    | Comments                                            |
|-----------|----------------------------------|---------------|---------|-----------------------------------------------------|
| REC 106   | Cooper 'S' Mk2 / Midget / Sprite | 1.150"/29.2mm | Exhaust | Single Groove, 88G459 Collets                       |
| REC 128   |                                  | 1.150"/29.2mm | Exhaust | Undercut Stem, Single Groove, 88G459 Collets        |
| REC 123   |                                  | 1.160"/29.5mm | Exhaust | Stellite Seat, Undercut Stem, Single Groove, 88G459 |
| REC 956   |                                  | 1.157"/29.4mm | Exhaust | Undercut Stem, Single Groove, 88G459 Collets        |
| REC 133   |                                  | 1.181"/30.0mm | Exhaust | Undercut Stem, Single Groove, 88G459 Collets        |
| REC 107   |                                  | 1.220"/31.0mm | Exhaust | Single Groove, 88G459 Collets                       |
| REC 127   |                                  | 1.220"/31.0mm | Exhaust | Undercut Stem, Single Groove, 88G459 Collets        |
| REC 124   |                                  | 1.220"/31.0mm | Exhaust | Stellite Seat, Undercut Stem, Single Groove, 88G459 |
| REC 136/1 |                                  | 1.220"/31.0mm | Exhaust | 6mm Stem, Single Groove, <b>Kit, LK6 Collets</b>    |
| REC 137/1 |                                  | 1.240"/31.5mm | Exhaust | 6mm Stem, Single Groove, <b>Kit, LK6 Collets</b>    |
| REC 108   |                                  | 1.250"/31.7mm | Exhaust | Single Groove, 88G459 Collets                       |
| REC 138/1 |                                  | 1.259"/32.0mm | Exhaust | 6mm Stem, Single Groove, <b>Kit, LK6 Collets</b>    |

|         |                        |               |         |                                           |
|---------|------------------------|---------------|---------|-------------------------------------------|
| REC 114 | Arden Cross-Flow MOWOG | 1.401"/35.6mm | Inlet   | Alloy Head, Single Groove, 88G459 Collets |
| REC 115 | Arden Cross-Flow MOWOG | 1.220"/31.0mm | Exhaust | Alloy Head, Single Groove, 88G459 Collets |

|       |                            |                |         |                                               |
|-------|----------------------------|----------------|---------|-----------------------------------------------|
| 38418 | Metro Turbo 1275cc 1982-on | 1.215"/30.85mm | Exhaust | O/S H/D +1.5mm, 8mm Stems, Triple Groove, MK8 |
|-------|----------------------------|----------------|---------|-----------------------------------------------|

## Aston Martin

| Part No. | Application                       | Head Diameter | Type    | Comments                |
|----------|-----------------------------------|---------------|---------|-------------------------|
| REC 490  | DB5/6 1963 - 1971 (Vantage Shape) | 2.125"/54.0mm | Inlet   | O/S H/D +0.109" / 2.8mm |
| REC 491  | DB5/6 1963 - 1971 (Vantage Shape) | 1.875"/47.6mm | Exhaust | Std. H/D                |

|         |                                         |               |         |                       |
|---------|-----------------------------------------|---------------|---------|-----------------------|
| REC 525 | Vantage 1993 - 2000 5.3 Litre V8 Engine | 2.100"/53.3mm | Inlet   | Type 580 (Short Stem) |
| REC 526 | Vantage 1993 - 2000 5.3 Litre V8 Engine | 1.875"/47.6mm | Exhaust | Type 580 (Short Stem) |

|         |                                        |               |         |                                 |
|---------|----------------------------------------|---------------|---------|---------------------------------|
| REC 763 | DB5/6 1963 - 1971 4 Litre, DOHC Engine | 2.016"/51.2mm | Inlet   | Std. H/D                        |
| REC 392 |                                        | 2.040"/51.8mm | Inlet   | O/S H/D +0.030" / 0.762mm       |
| REC 773 |                                        | 2.200"/55.9mm | Inlet   | O/S H/D, Length +0.250" / 6.4mm |
| REC 764 | DB5/6 1963 - 1971 4 Litre, DOHC Engine | 1.878"/47.7mm | Exhaust | Std., Stellite Seat             |
| REC 393 |                                        | 1.905"/48.4mm | Exhaust | O/S H/D +0.030" / 0.762mm       |



| Part No. | Application                            | Head Diameter | Type    | Comments                                                                     |
|----------|----------------------------------------|---------------|---------|------------------------------------------------------------------------------|
| REC 711  | 80 GTE, Quattro 1983-on                | 42.0mm/1.654" | Inlet   | (1781cc DX Engine), O/S H/D +2mm, MK8 Collets                                |
| REC 712  | 80 GTE, Quattro 1983-on                | 35.0mm/1.382" | Exhaust | (1781cc DX Engine), O/S H/D +2mm, MK8 Collets                                |
| REC 775  | Quattro 80, 90 & 100 1986-on (8 Valve) | 40.0mm/1.575" | Inlet   | (1781cc, DX Engine), <b>Hydraulic Tappet</b> , Std. H/D MK8 Collets          |
| REC 805  |                                        | 42.0mm/1.653" | Inlet   | (1781cc DX Engine), <b>Hydraulic Tappet</b> O/S H/D +2mm, MK8 Collets        |
| REC 776  | Quattro 80, 90 & 100 1986-on (8 Valve) | 33.1mm/1.304" | Exhaust | (1781cc, DX Engine), <b>Hydraulic Tappet</b> , Std. H/D MK8 Collets          |
| REC 806  |                                        | 35.0mm/1.377" | Exhaust | (1781cc DX Engine), <b>Hydraulic Tappet</b> O/S H/D +2mm, MK8 Collets        |
| REC 502  | Quattro 80, 90 (16 Valve) 01/1988-on   | 1.260"/32.0mm | Inlet   | (1781cc PL, KR Engine), Single Groove <b>Hydraulic Tappets</b> , RK7 Collets |
| REC 503  | Quattro 80, 90 (16 Valve) 01/1988-on   | 1.104"/28.0mm | Exhaust | (1781cc PL, KR Engine), Single Groove <b>Hydraulic Tappets</b> , RK7 Collets |
| REC 536  | Quattro 80, 90 (16 Valve) 01/1988-on   | 32.0mm/1.260" | Inlet   | (1781cc PL, KR Engine), Single Groove <b>Solid Tappet</b> , RK7 Collets      |
| REC 537  | Quattro 80, 90 (16 Valve) 01/1988-on   | 28.0mm/1.102" | Exhaust | (1781cc PL, KR Engine), Single Groove <b>Solid Tappet</b> , RK7 Collets      |
| REC 542  | Quattro 200, 200 5T Turbo 1979-on      | 1.496"/38.0mm | Inlet   | Std. H/D MK8 Collets (Triple Groove)                                         |
| REC 543  | Quattro 200, 200 5T Turbo 1979-on      | 1.307"/33.2mm | Exhaust | Std. H/D, Nimonic 80, MK8 Collets (Triple Groove)                            |
| REC 500  | 80 GTE, GLE (K-Jetronic) 1975-on       | 2.100"/53.3mm | Inlet   | Single Groove, O/S H/D +2mm, Length -1mm (1588cc EG Engine), RK8 Collets     |
| REC 501  | 80 GTE, GLE (K-Jetronic) 1975-on       | 1.875"/47.6mm | Exhaust | Single Groove, O/S H/D +3.8mm, Length -1mm (1588cc, EG Engine), RK8 Collets  |
| REC 711  | 80 GT5S, 100 C5/CL5, 200 5E 1981-on    | 42.0mm/1.654" | Inlet   | (1921cc DX Engine), O/S H/D +2mm, MK8 Collets                                |
| REC 712  | 80 GT5S, 100 C5/CL5, 200 5E 1981-on    | 35.0mm/1.382" | Exhaust | (1921cc DX Engine), O/S H/D +2mm, MK8 Collets                                |

## Austin Healey

| Part No. | Application | Head Diameter | Type    | Comments      |
|----------|-------------|---------------|---------|---------------|
| REC 398  | 3000, 100/6 | 1.790"/45.5mm | Inlet   | 'C' Type Head |
| REC 889  |             | 1.850"/47.0mm | Inlet   | O/S H/D       |
| REC 498  |             | 1.850"/47.0mm | Inlet   | 5/16" Stem    |
| REC 399  | 3000, 100/6 | 1.605"/40.7mm | Exhaust | 'C' Type Head |
| REC 890  |             | 1.620"/41.1mm | Exhaust | O/S H/D       |
| REC 499  |             | 1.620"/41.1mm | Exhaust | 5/16" Stem    |



## BMW - (Collets Available)

| Part No. | Application                            | Head Diameter  | Type    | Comments                              |
|----------|----------------------------------------|----------------|---------|---------------------------------------|
| REC 904  | Formula 2, 4 Valve, 2 Litre (M12 Eng)  | 36.5mm/1.437"  | Inlet   | 7mm Stem, , MK7 Collets               |
| REC 905  | Formula 2, 4 Valve, 2 Litre (M12 Eng)  | 31.50mm/1.240" | Exhaust | 7mm Stem, , MK7 Collets               |
| REC 435  | 2002 (121, E12 1990cc Eng) 65-75       | 47.0mm/1.850"  | Inlet   | O/S H/D +1mm, 8mm Stem, MK8 Collets   |
| REC 913  |                                        | 47.5mm/1.870"  | Inlet   | O/S H/D +1.5mm, 8mm Stem, MK8 Collets |
| REC 436  | 2002 (121, E12 1990cc Eng) 65-75       | 39.0mm/1.535"  | Exhaust | O/S H/D +1mm, 8mm Stem, MK8 Collets   |
| REC 433  | 2500, 2.5CS (125E, 2494cc Eng) 68-76   | 47.0mm/1.850"  | Inlet   | O/S H/D +1.0mm, 8mm Stem, MK8 Collets |
| REC 434  | 2500, 2.5CS (125E, 2494cc Eng) 68-76   | 39.0mm/1.535"  | Exhaust | O/S H/D +1.0mm, 8mm Stem, MK8 Collets |
| REC 433  | 2500, 2.5CS (M30B25, 2494cc Eng) 76-81 | 47.0mm/1.850"  | Inlet   | O/S H/D +1.0mm, 8mm Stem, MK8 Collets |
| REC 434  | 2500, 2.5CS (M30B25, 2494cc Eng) 76-81 | 39.0mm/1.535"  | Exhaust | O/S H/D +1.0mm, 8mm Stem, MK8 Collets |
| REC 433  | 2800, CS (128E, 2788cc Eng) 68-76      | 47.0mm/1.850"  | Inlet   | O/S H/D +1.0mm, 8mm Stem, MK8 Collets |
| REC 434  | 2800, CS (128E, 2788cc Eng) 68-76      | 39.0mm/1.535"  | Exhaust | O/S H/D +1.0mm, 8mm Stem, MK8 Collets |
| REC 433  | 3.0S/CS/L/Si/CSi (E3,2985cc Eng) 71-76 | 47.0mm/1.850"  | Inlet   | O/S H/D +1.0mm, 8mm Stem, MK8 Collets |
| REC 434  | 3.0S/CS/L/Si/CSi (E3,2985cc Eng) 71-76 | 39.0mm/1.535"  | Exhaust | O/S H/D +1.0mm, 8mm Stem, MK8 Collets |
| REC 435  | 316 (118/4, M10B 1766cc Eng) 75-on     | 47.0mm/1.850"  | Inlet   | O/S H/D +5mm, 8mm Stem, MK8 Collets   |
| REC 913  |                                        | 47.5mm/1.870"  | Inlet   | O/S H/D +5.5mm, 8mm Stem, MK8 Collets |
| REC 436  | 316 (118/4, M10B 1766cc Eng) 75-on     | 39.0mm/1.535"  | Exhaust | O/S H/D +4mm, 8mm Stem, MK8 Collets   |
| REC 435  | 316i (E12 1990cc Eng) 87-on            | 47.0mm/1.850"  | Inlet   | O/S H/D +1mm, 8mm Stem, MK8 Collets   |
| REC 913  |                                        | 47.5mm/1.870"  | Inlet   | O/S H/D +1.5mm, 8mm Stem, MK8 Collets |
| REC 436  | 316i (E12 1990cc Eng) 87-on            | 39.0mm/1.535"  | Exhaust | O/S H/D +1mm, 8mm Stem, MK8 Collets   |
| REC 390  | 316i E30 (M40B16, 1596cc Eng) 88-90    | 42.0mm/1.653"  | Inlet   | Std. H/D, 7mm Stem, MK7 Collets       |
| REC 391  | 316i E30 (M40B16, 1596cc Eng) 88-90    | 36.0mm/1.417"  | Exhaust | Std. H/D, 7mm Stem, MK7 Collets       |
| REC 390  | 316i E36 (M40B16, 1596cc Eng) 90-94    | 42.0mm/1.653"  | Inlet   | Std. H/D, 7mm Stem, MK7 Collets       |
| REC 391  | 316i E36 (M40B16, 1596cc Eng) 90-94    | 36.0mm/1.417"  | Exhaust | Std. H/D, 7mm Stem, MK7 Collets       |
| REC 435  | 318 (118/4, M10B 1766cc Eng) 75-84     | 47.0mm/1.850"  | Inlet   | O/S H/D, 8mm Stem, MK8 Collets        |
| REC 913  |                                        | 47.5mm/1.870"  | Inlet   | O/S H/D, 8mm Stem, MK8 Collets        |
| REC 436  | 318 (118/4, M10B 1766cc Eng) 75-84     | 39.0mm/1.535"  | Exhaust | O/S H/D, 8mm Stem, MK8 Collets        |
| REC 390  | 318i E30 (M40B18 1796cc Eng) 87-90     | 42.0mm/1.653"  | Inlet   | Std. H/D, 7mm Stem, MK7 Collets       |
| REC 391  | 318i E30 (M40B18 1796cc Eng) 87-90     | 36.0mm/1.417"  | Exhaust | Std. H/D, 7mm Stem, MK7 Collets       |
| REC 390  | 318i E36 (M40B18 1796cc Eng) 92-93     | 42.0mm/1.653"  | Inlet   | Std. H/D, 7mm Stem, MK7 Collets       |
| REC 391  | 318i E36 (M40B18 1796cc Eng) 92-93     | 36.0mm/1.417"  | Exhaust | Std. H/D, 7mm Stem, MK7 Collets       |
| REC 504  | 320i (M20B20, 1990cc Eng) 1977-on      | 43.5mm/1.712"  | Inlet   | O/S H/D +3.6mm, 7mm Stem, MK7 Collets |
| REC 505  | 320i (M20B20, 1990cc Eng) 1977-on      | 37.2mm/1.465"  | Exhaust | O/S H/D +3.3mm, 7mm Stem, MK7 Collets |
| REC 504  | 323i (M20B20, 2316cc Eng) 1977-on      | 43.5mm/1.712"  | Inlet   | O/S H/D +3.6mm, 7mm Stem, MK7 Collets |
| REC 505  | 323i (M20B20, 2316cc Eng) 1977-on      | 37.2mm/1.465"  | Exhaust | O/S H/D +3.3mm, 7mm Stem, MK7 Collets |
| REC 504  | 325i (M20B25 Eng) 1985-92              | 42.5mm/1.670"  | Inlet   | O/S H/D +0.5mm, 7mm Stem, MK7         |
| REC 505  | 325i (M20B25 Eng) 1985-92              | 36.6mm/1.440"  | Exhaust | O/S H/D +0.6mm, 7mm Stem, MK7         |
| REC 504  | 325e (M20B27 2693cc Eng) 1984-on       | 43.5mm/1.712"  | Inlet   | O/S H/D +3.6mm, 7mm Stem, MK7 Collets |
| REC 505  | 325e (M20B27 2693cc Eng) 1984-on       | 37.2mm/1.465"  | Exhaust | O/S H/D +3.3mm, 7mm Stem, MK7 Collets |
| REC 390  | 325i E36 (M40 Eng) 1990-92             | 42.0mm/1.653"  | Inlet   | Std. H/D, 7mm Stem, MK7 Collets       |
| REC 391  | 325i E36 (M40 Eng) 1990-92             | 36.0mm/1.417"  | Exhaust | Std. H/D, 7mm Stem, MK7 Collets       |



## BMW - (Collets Available) (PTO)

| Part No. | Application                           | Head Diameter | Type    | Comments                              |
|----------|---------------------------------------|---------------|---------|---------------------------------------|
| REC 435  | 518 (118/4, M10B 1766cc Eng) 68-84    | 47.0mm/1.850" | Inlet   | O/S H/D, 8mm Stem, MK8 Collets        |
| REC 913  |                                       | 47.5mm/1.870" | Inlet   | O/S H/D, 8mm Stem, MK8 Collets        |
| REC 436  | 518 (118/4, M10B 1766cc Eng) 68-84    | 39.0mm/1.535" | Exhaust | O/S H/D, 8mm Stem, MK8 Collets        |
| REC 390  | 518i E34 (M40B18 1796cc Eng) 88-94    | 42.0mm/1.653" | Inlet   | 7mm Stem, M40B18 Engine, MK7 Collets  |
| REC 391  | 518i E34 (M40B18 1796cc Eng) 88-94    | 36.0mm/1.417" | Exhaust | 7mm Stem, M40B18 Engine, MK7 Collets  |
| REC 435  | 520i (2000E 1990cc Eng) 75-77         | 47.0mm/1.850" | Inlet   | O/S H/D +1mm, 8mm Stem, MK8 Collets   |
| REC 913  |                                       | 47.5mm/1.870" | Inlet   | O/S H/D +1.5mm, 8mm Stem, MK8 Collets |
| REC 436  | 520i (2000E 1990cc Eng) 75-77         | 39.0mm/1.535" | Exhaust | O/S H/D +1mm, 8mm Stem, MK8 Collets   |
| REC 504  | 520i (M20B20, 1990cc Eng) 1977-on     | 43.5mm/1.712" | Inlet   | O/S H/D +3.6mm, 7mm Stem, MK7 Collets |
| REC 505  | 520i (M20B20, 1990cc Eng) 1977-on     | 37.2mm/1.465" | Exhaust | O/S H/D +3.3mm, 7mm Stem, MK7 Collets |
| REC 433  | 525 (125E, 2494cc Eng) 68-76          | 47.0mm/1.850" | Inlet   | O/S H/D +1.0mm, 8mm Stem, MK8 Collets |
| REC 434  | 525 (125E, 2494cc Eng) 68-76          | 39.0mm/1.535" | Exhaust | O/S H/D +1.0mm, 8mm Stem, MK8 Collets |
| REC 433  | 525 (M30B25, 2494cc Eng) 76-81        | 47.0mm/1.850" | Inlet   | O/S H/D +1.0mm, 8mm Stem, MK8 Collets |
| REC 434  | 525 (M30B25, 2494cc Eng) 76-81        | 39.0mm/1.535" | Exhaust | O/S H/D +1.0mm, 8mm Stem, MK8 Collets |
| REC 504  | 525e (M20B27, 2693cc Eng) 1983-on     | 43.5mm/1.712" | Inlet   | O/S H/D +3.6mm, 7mm Stem, MK7 Collets |
| REC 505  | 525e (M20B27, 2693cc Eng) 1983-on     | 37.2mm/1.465" | Exhaust | O/S H/D +3.3mm, 7mm Stem, MK7 Collets |
| REC 433  | 525i (M30B25, 2494cc Eng) 80-on       | 47.0mm/1.850" | Inlet   | O/S H/D +1.0mm, 8mm Stem, MK8 Collets |
| REC 434  | 525i (M30B25, 2494cc Eng) 80-on       | 39.0mm/1.535" | Exhaust | O/S H/D +1.0mm, 8mm Stem, MK8 Collets |
| REC 504  | 525i (M20B25 Eng) 1988-90             | 42.5mm/1.670" | Inlet   | O/S H/D +0.5mm, 7mm Stem, MK7         |
| REC 505  | 525i (M20B25 Eng) 1988-90             | 36.6mm/1.440" | Exhaust | O/S H/D +0.6mm, 7mm Stem, MK7         |
| REC 433  | 528i (128E, 2788cc Eng) 68-76         | 47.0mm/1.850" | Inlet   | O/S H/D +1.0mm, 8mm Stem, MK8 Collets |
| REC 434  | 528i (128E, 2788cc Eng) 68-76         | 39.0mm/1.535" | Exhaust | O/S H/D +1.0mm, 8mm Stem, MK8 Collets |
| REC 433  | 528i (M39B25, 2788cc Eng) 77-on       | 47.0mm/1.850" | Inlet   | O/S H/D +1.0mm, 8mm Stem, MK8 Collets |
| REC 434  | 528i (M39B25, 2788cc Eng) 77-on       | 39.0mm/1.535" | Exhaust | O/S H/D +1.0mm, 8mm Stem, MK8 Collets |
| REC 433  | 530i E24 (M30B30, 2985cc Eng) 88-on   | 47.0mm/1.850" | Inlet   | O/S H/D +1.0mm, 8mm Stem, MK8 Collets |
| REC 434  | 530i E24 (M30B30, 2985cc Eng) 88-on   | 39.0mm/1.535" | Exhaust | O/S H/D +1.0mm, 8mm Stem, MK8 Collets |
| REC 433  | M535i E24 (M30B34, 3430cc Eng) 83-on  | 47.0mm/1.850" | Inlet   | O/S H/D +1.0mm, 8mm Stem, MK8 Collets |
| REC 434  | M535i E24 (M30B34, 3430cc Eng) 83-on  | 39.0mm/1.535" | Exhaust | O/S H/D +1.0mm, 8mm Stem, MK8 Collets |
| REC 433  | 628i (M30B25, 2788cc Eng) 77-on       | 47.0mm/1.850" | Inlet   | O/S H/D +1.0mm, 8mm Stem, MK8 Collets |
| REC 434  | 628i (M30B25, 2788cc Eng) 77-on       | 39.0mm/1.535" | Exhaust | O/S H/D +1.0mm, 8mm Stem, MK8 Collets |
| REC 433  | 630CS E24 (3000E, 2985cc Eng) 76-80   | 47.0mm/1.850" | Inlet   | O/S H/D +1.0mm, 8mm Stem, MK8 Collets |
| REC 434  | 630CS E24 (3000E, 2985cc Eng) 76-80   | 39.0mm/1.535" | Exhaust | O/S H/D +1.0mm, 8mm Stem, MK8 Collets |
| REC 433  | 633CSi E24 (M30B32, 3210cc Eng) 76-82 | 47.0mm/1.850" | Inlet   | O/S H/D +1.0mm, 8mm Stem, MK8 Collets |
| REC 434  | 633CSi E24 (M30B32, 3210cc Eng) 76-82 | 39.0mm/1.535" | Exhaust | O/S H/D +1.0mm, 8mm Stem, MK8 Collets |
| REC 433  | 635CSi E24 (M30B34, 3430cc Eng) 83-on | 47.0mm/1.850" | Inlet   | O/S H/D +1.0mm, 8mm Stem, MK8 Collets |
| REC 434  | 635CSi E24 (M30B34, 3430cc Eng) 83-on | 39.0mm/1.535" | Exhaust | O/S H/D +1.0mm, 8mm Stem, MK8 Collets |
| REC 433  | 728 (M30B25, 2494cc Eng) 76-81        | 47.0mm/1.850" | Inlet   | O/S H/D +1.0mm, 8mm Stem, MK8 Collets |
| REC 434  | 728 (M30B25, 2494cc Eng) 76-81        | 39.0mm/1.535" | Exhaust | O/S H/D +1.0mm, 8mm Stem, MK8 Collets |
| REC 433  | 728i (M30B25, 2788cc Eng) 77-on       | 47.0mm/1.850" | Inlet   | O/S H/D +1.0mm, 8mm Stem, MK8 Collets |
| REC 434  | 728i (M30B25, 2788cc Eng) 77-on       | 39.0mm/1.535" | Exhaust | O/S H/D +1.0mm, 8mm Stem, MK8 Collets |



## BMW - (Collets Available) (PTO)

| Part No.  | Application                                                          | Head Diameter  | Type    | Comments                                                                             |
|-----------|----------------------------------------------------------------------|----------------|---------|--------------------------------------------------------------------------------------|
| REC 433   | 730 E24 (3000E, 2985cc Eng) 76-80                                    | 47.0mm/1.850"  | Inlet   | O/S H/D +1.0mm, 8mm Stem, MK8 Collets                                                |
| REC 434   | 730 E24 (3000E, 2985cc Eng) 76-80                                    | 39.0mm/1.535"  | Exhaust | O/S H/D +1.0mm, 8mm Stem, MK8 Collets                                                |
| REC 433   | 730i E24 (M30B30, 2985cc Eng) 86-on                                  | 47.0mm/1.850"  | Inlet   | O/S H/D +1.0mm, 8mm Stem, MK8 Collets                                                |
| REC 434   | 730i E24 (M30B30, 2985cc Eng) 86-on                                  | 39.0mm/1.535"  | Exhaust | O/S H/D +1.0mm, 8mm Stem, MK8 Collets                                                |
| REC 433   | 732i E24 (M30B32, 3210cc Eng) 76-82                                  | 47.0mm/1.850"  | Inlet   | O/S H/D +1.0mm, 8mm Stem, MK8 Collets                                                |
| REC 434   | 732i E24 (M30B32, 3210cc Eng) 76-82                                  | 39.0mm/1.535"  | Exhaust | O/S H/D +1.0mm, 8mm Stem, MK8 Collets                                                |
| REC 433   | 733i E24 (M30B32, 3210cc Eng) 76-82                                  | 47.0mm/1.850"  | Inlet   | O/S H/D +1.0mm, 8mm Stem, MK8 Collets                                                |
| REC 434   | 733i E24 (M30B32, 3210cc Eng) 76-82                                  | 39.0mm/1.535"  | Exhaust | O/S H/D +1.0mm, 8mm Stem, MK8 Collets                                                |
| REC 433   | 735i E24 (M30B32, 3210cc Eng) 76-82                                  | 47.0mm/1.850"  | Inlet   | O/S H/D +1.0mm, 8mm Stem, MK8 Collets                                                |
| REC 434   | 735i E24 (M30B32, 3210cc Eng) 76-82                                  | 39.0mm/1.535"  | Exhaust | O/S H/D +1.0mm, 8mm Stem, MK8 Collets                                                |
| REC 433   | 745i Turbo (M30B34, 3430cc Eng) 82-on                                | 47.0mm/1.850"  | Inlet   | O/S H/D +1.0mm, 8mm Stem, MK8 Collets                                                |
| REC 828   | BMW Mini, R52, R53 (W10, W11 Eng)                                    | 31.0mm/1.230"  | Inlet   | O/S H/D + 1.0mm, Std. Stem Dia.                                                      |
| REC 933   |                                                                      | 31.0mm/1.230"  | Inlet   | O/S H/D + 1.0mm, Std. Stem <b>SK6 (Single Groove)</b>                                |
| REC 830   | BMW Mini, R52, R53 (W10, W11 Eng)                                    | 25.25mm/0.994" | Exhaust | O/S H/D + 2.0mm, Stellite Seat, Std. Stem Dia.                                       |
| REC 934   |                                                                      | 25.25mm/0.994" | Exhaust | O/S H/D + 2.0mm Stellite Seat <b>SK6 (Single Groove)</b>                             |
| REC 830/1 |                                                                      | 25.25mm/0.994" | Exhaust | O/S H/D + 2.0mm, Stellite Seat<br>O/S Stem <b>(to run in 6mm Guides)</b>             |
| REC 808   |                                                                      | 25.25mm/0.994" | Exhaust | O/S H/D + 2.0mm, Std. Stem Dia.                                                      |
| REC 935   |                                                                      | 25.25mm/0.994" | Exhaust | O/S H/D + 2.0mm, Std. Stem <b>SK6 (Single Groove)</b>                                |
| REC 808/1 |                                                                      | 25.25mm/0.994" | Exhaust | O/S H/D + 2.0mm, O/S Stem <b>(to run in 6mm Guides)</b>                              |
| REC 942   | BMW Mini Cooper S Turbo R56, R57<br>(N14 & N18 1600cc Eng) 2007-2010 | 29.3mm/1.154"  | Inlet   | O/S H/D +0.5mm, MK5 Collets<br><b>(Triple Groove)</b> , Will fit on Std. Seat Insert |
| REC 942/1 |                                                                      | 29.3mm/1.154"  | Inlet   | O/S H/D +0.5mm, SK5 Collets<br><b>(Single Groove)</b> , Will fit on Std. Seat Insert |
| REC 943   | BMW Mini Cooper S Turbo R56, R57<br>(N14 & N18 1600cc Eng) 2007-2010 | 26.0mm/1.024"  | Exhaust | Nimonic 80A, Std. H/D, MK5 Collets<br><b>(Triple Groove)</b>                         |
| REC 943/1 |                                                                      | 26.0mm/1.024"  | Exhaust | Nimonic 80A, Std. H/D, SK5 Collets<br><b>(Single Groove)</b>                         |
| REC 504   | Z1 (M20, 2494cc Eng) 1988-91                                         | 42.5mm/1.670"  | Inlet   | O/S H/D +0.5mm, 7mm Stem, M20 Engine, MK7                                            |
| REC 505   | Z1 (M20, 2494cc Eng) 1988-91                                         | 36.6mm/1.440"  | Exhaust | O/S H/D +0.6mm, 7mm Stem, M20 Engine, MK7                                            |



## Citroen - (Collets Available)

| Part No.             | Application                         | Head Diameter  | Type    | Comments                                                                                           |
|----------------------|-------------------------------------|----------------|---------|----------------------------------------------------------------------------------------------------|
| REC 915              | Berlingo 1600cc 16 Valve 02/2002-on | 31.5mm/1.240"  | Inlet   | TU5JP4 (NFU), TU5J4 (NFX) Engine, Std. H/D                                                         |
| REC 908              |                                     | 32.3mm/1.270"  | Inlet   | TU5JP4 (NFU), TU5J4 (NFX), O/S H/D + 1.00mm                                                        |
| REC 834<br>REC 834/1 | Berlingo 1600cc 16 Valve 02/2002-on | 25.50mm/1.004" | Exhaust | TU5JP4 (NFU), TU5J4 (NFX), O/S H/D + 1.00mm<br>Setellite Seat, <b>REC 834/1 - No Stellite Seat</b> |

|         |                                                 |   |               |         |                                               |
|---------|-------------------------------------------------|---|---------------|---------|-----------------------------------------------|
| REC 859 | Saxo SX, VSX, VTL, VTR 1600cc Valve, 07/1997-on | 8 | 40.3mm/1.585" | Inlet   | TU5JP/J2 Engine, O/S H/D + 1.0mm, MK7 Collets |
| REC 860 | Saxo SX, VSX, VTL, VTR 1600cc Valve, 07/1997-on | 8 | 32.3mm/1.270" | Exhaust | TU5JP/J2 Engine, O/S H/D + 1.0mm, MK7 Collets |

|         |                                     |                |         |                                               |
|---------|-------------------------------------|----------------|---------|-----------------------------------------------|
| REC 859 | Saxo VTS 1600cc, 8 Valve 09/1996-on | 40.25mm/1.585" | Inlet   | TU5JP/J2 Engine, O/S H/D + 1.0mm, MK7 Collets |
| REC 860 | Saxo VTS 1600cc, 8 Valve 09/1996-on | 32.25mm/1.270" | Exhaust | TU5JP/J2 Engine, O/S H/D + 1.0mm, MK7 Collets |

|                      |                                         |                |         |                                                                                                    |
|----------------------|-----------------------------------------|----------------|---------|----------------------------------------------------------------------------------------------------|
| REC 915              | C2 / C3 / C4 1600cc 16 Valve 02/2002-on | 31.5mm/1.240"  | Inlet   | TU5JP4 (NFU), TU5J4 (NFX) Engine, Std. H/D                                                         |
| REC 908              |                                         | 32.3mm/1.270"  | Inlet   | TU5JP4 (NFU), TU5J4 (NFX), O/S H/D + 1.00mm                                                        |
| REC 834<br>REC 834/1 | C2 / C3 / C4 1600cc 16 Valve 02/2002-on | 25.50mm/1.004" | Exhaust | TU5JP4 (NFU), TU5J4 (NFX), O/S H/D + 1.00mm<br>Setellite Seat, <b>REC 834/1 - No Stellite Seat</b> |

|                      |                                   |                |         |                                                                                                    |
|----------------------|-----------------------------------|----------------|---------|----------------------------------------------------------------------------------------------------|
| REC 915              | Saxo S 1600cc 16 Valve 02/1996-on | 31.5mm/1.240"  | Inlet   | TU5JP4 (NFU), TU5J4 (NFX) Engine, Std. H/D                                                         |
| REC 908              |                                   | 32.3mm/1.270"  | Inlet   | TU5JP4 (NFU), TU5J4 (NFX), O/S H/D + 1.00mm                                                        |
| REC 834<br>REC 834/1 | Saxo S 1600cc 16 Valve 02/1996-on | 25.50mm/1.004" | Exhaust | TU5JP4 (NFU), TU5J4 (NFX), O/S H/D + 1.00mm<br>Setellite Seat, <b>REC 834/1 - No Stellite Seat</b> |

|                      |                                  |                |         |                                                                                                    |
|----------------------|----------------------------------|----------------|---------|----------------------------------------------------------------------------------------------------|
| REC 915              | Xsara 1600cc 16 Valve 02/1996-on | 31.5mm/1.240"  | Inlet   | TU5JP4 (NFU), TU5J4 (NFX) Engine, Std. H/D                                                         |
| REC 908              |                                  | 32.3mm/1.270"  | Inlet   | TU5JP4 (NFU), TU5J4 (NFX), O/S H/D + 1.00mm                                                        |
| REC 834<br>REC 834/1 | Xsara 1600cc 16 Valve 02/1996-on | 25.50mm/1.004" | Exhaust | TU5JP4 (NFU), TU5J4 (NFX), O/S H/D + 1.00mm<br>Setellite Seat, <b>REC 834/1 - No Stellite Seat</b> |

## Cosworth - (Retainers, Collets & Guides Available) (PTO)

| Part No. | Application               | Head Diameter | Type    | Comments                                    |
|----------|---------------------------|---------------|---------|---------------------------------------------|
| REC 263  | BDA                       | 1.275"/32.4mm | Inlet   | Race Length, U-cut, O/S H/D +0.055", PP0672 |
| REC 236  |                           | 1.325"/33.6mm | Inlet   | Race Length, PP0672 Collets                 |
| REC 236W |                           | 1.325"/33.6mm | Inlet   | Race Length, Undercut, PP0672 Collets       |
| REC 259  |                           | 1.360"/34.5mm | Inlet   | Race Length, Undercut, PP0672 Collets       |
| REC 258  |                           | 1.360"/34.5mm | Inlet   | Long Stem, Undercut, PP0672 Collets         |
| REC 238  | BDA                       | 1.145"/29.0mm | Exhaust | Race Length, PP0672 Collets                 |
| REC 232  | Formula Atlantic 1600 BDA | 1.220"/31.0mm | Inlet   | Race Length, PP0672 Collets                 |
| REC 233  | Formula Atlantic 1600 BDA | 1.000"/25.4mm | Exhaust | Race Length, PP0672 Collets                 |
| REC 228  | RS1800 BDA                | 1.220/31.0mm  | Inlet   | Std. Length, PP0672 Collets                 |
| REC 230  |                           | 1.275"/32.4mm | Inlet   | Std. Length, PP0672 Collets                 |
| REC 229  | BDR1700                   | 1.000"/25.4mm | Exhaust | Std. Length, PP0672 Collets                 |
| REC 231  | RS1800 BDA                | 1.070"/27.2mm | Exhaust | Std. Length, PP0672 Collets                 |

|          |     |               |         |                                                   |
|----------|-----|---------------|---------|---------------------------------------------------|
| REC 256  | BDG | 1.400"/35.5mm | Inlet   | Long Stem, PP0672 Collets                         |
| REC 476  | BDG | 1.200"/30.5mm | Exhaust | Long Stem (Different Cam Carrier), PP0672 Collets |
| REC 476N |     | 1.200"/30.5mm | Exhaust | Nimonic, Long Stem, Different Cam Carrier, PP0672 |
| REC 257  |     | 1.200"/30.5mm | Exhaust | Std. Cosworth Length, PP0672 Collets              |

|         |     |               |         |                                                 |
|---------|-----|---------------|---------|-------------------------------------------------|
| REC 234 | BDH | 1.275"/32.4mm | Inlet   | Race Length, Undercut, Std. H/D, PP0672 Collets |
| REC 235 | BDH | 1.070"/27.2mm | Exhaust | Race Length, Std. H/D, PP0672 Collets           |



## Cosworth - (Retainers, Collets & Guides Available) - Continued

| Part No.  | Application                                  | Head Diameter  | Type    | Comments                                                               |
|-----------|----------------------------------------------|----------------|---------|------------------------------------------------------------------------|
| REC 476   | BDT                                          | 1.200"/30.5mm  | Exhaust | Long Stem, PP0672 Collets                                              |
| REC 476N  |                                              | 1.200"/30.5mm  | Exhaust | Nimonic, Long Stem, PP0672 Collets                                     |
| REC 765   | DFV 3 Litre                                  | 1.362"/34.6mm  | Inlet   | 85.6mm Bore, 64.8mm Stroke, PP0672 Collets                             |
| REC 761   |                                              | 1.403"/35.6mm  | Inlet   | PP0672 Collets                                                         |
| REC 789   |                                              | 1.403"/35.6mm  | Inlet   | 90.0mm Stroke, Short Stroke, PP0672 Collets                            |
| REC 906   | DFV, DFR 3 Litre                             | 1.463"/37.16mm | Inlet   | PP0672 Collets                                                         |
| REC 906/1 | DFY 3 Litre                                  | 1.430"/36.32mm | Inlet   | PP0672 Collets                                                         |
| REC 766   | DFV 3 Litre                                  | 1.184"/30.0mm  | Exhaust | 85.6mm Bore, 64.8mm Stroke, PP0672 Collets                             |
| REC 762   |                                              | 1.252"/31.8mm  | Exhaust | PP0672 Collets                                                         |
| REC 907   | DFV, DFR                                     | 1.252"/31.8mm  | Exhaust | PP0672 Collets                                                         |
| REC 281   | MAE 1000cc / 1100cc                          | 1.400/35.5mm   | Inlet   | Push-Rod Engine, 9/32" Stem, PP0672 Collets                            |
| REC 275   |                                              | 1.450"/36.8mm  | Inlet   | Push-Rod Engine, 9/32" Stem, PP0672 Collets                            |
| REC 282   | MAE 1000cc / 1100cc                          | 1.250"/31.7mm  | Exhaust | Push-Rod Engine, 9/32" Stem, PP0672 Collets                            |
| REC 269   | SCA 1000cc                                   | 1.531"/38.9mm  | Inlet   | Alloy, Single Overhead Cam, PP0672 Collets                             |
| REC 243   |                                              | 1.625"/41.3mm  | Inlet   | Alloy, Single Overhead Cam, PP0672 Collets                             |
| REC 280   | SCA 1000cc                                   | 1.300"/33.0mm  | Exhaust | Alloy, Single Overhead Cam, PP0672 Collets                             |
| REC 241   | SCB 1500cc                                   | 1.603"/40.7mm  | Inlet   | Alloy, Single Overhead Cam, PP0672 Collets                             |
| REC 243   |                                              | 1.625"/41.3mm  | Inlet   | Alloy, Single Overhead Cam, PP0672 Collets                             |
| REC 242   | SCB 1500cc                                   | 1.405"/35.7mm  | Exhaust | Alloy, Single Overhead Cam, PP0672 Collets                             |
| REC 394   | FVA 1600cc                                   | 1.377"/35.0mm  | Inlet   | O/S H/D +0.052", PP0672 Collets                                        |
| REC 395   | FVA 1600cc                                   | 1.160"/29.5mm  | Exhaust | O/S H/D +0.015", PP0672 Collets                                        |
| REC 766   |                                              | 1.184"/30.0mm  | Exhaust | O/S H/D +0.040", PP0672 Collets                                        |
| REC 394   | FVC 1800cc                                   | 1.377"/35.0mm  | Inlet   | Std., PP0672 Collets                                                   |
| REC 395   | FVC 1800cc                                   | 1.160"/29.5mm  | Exhaust | Std., PP0672 Collets                                                   |
| REC 766   |                                              | 1.184"/30.0mm  | Exhaust | O/S H/D +0.5mm, PP0672 Collets                                         |
| REC 878   | Sierra Non-Turbo (Cosworth YB Engine)        | 1.459"/37.0mm  | Inlet   | 9/32" Stem, PP0672 Collets                                             |
| REC 879   | Sierra Non-Turbo (Cosworth YB Engine)        | 1.222"/31.0mm  | Exhaust | 9/32" Stem, PP0672 Collets                                             |
| REC 555   | Sierra 4x4 Non-Turbo<br>(Cosworth YB Engine) | 1.427"/36.2mm  | Inlet   | 9/32" Stem, Mk2 Head, Small Dia. U-Cut, PP0672                         |
| REC 555/1 |                                              | 1.427"/36.2mm  | Inlet   | 9/32" Stem, Mk2 Head, Large Dia. U-Cut, PP0672                         |
| REC 529   |                                              | 1.500"/38.1mm  | Inlet   | 9/32" Stem, Mk2 Head, PP0672 Collets                                   |
| REC 556   | Sierra 4x4 Non-Turbo<br>(Cosworth YB Engine) | 1.260/32.0mm   | Exhaust | 9/32" Stem, Mk2 Head, PP0672 Collets                                   |
| REC 530   |                                              | 1.300/33.0mm   | Exhaust | 9/32" Stem, Mk2 Head, PP0672 Collets                                   |
| REC 753   | Sierra 4x4 Turbo (Ford YB Engine)            | 1.382"/35.1mm  | Inlet   | Std. H/D, 7mm Stem, Hydraulic Followers, RK7                           |
| REC 754   | Sierra 4x4 Turbo (Ford YB Engine)            | 1.226"/31.1mm  | Exhaust | Std. H/D, 8mm Stem, Hydraulic Followers, RK7                           |
| REC 754N  |                                              | 1.226"/31.1mm  | Exhaust | Nimonic, Std., Hydraulic Followers, PP0672 Collets                     |
| 51162     | Sierra 4x4 Turbo (Cosworth YB Engine)        | 1.428"/36.2mm  | Inlet   | 1.4882 Material, 9/32" Stem, PP0672 Collets                            |
| REC 898   |                                              | 1.496"/38.0mm  | Inlet   | O/S H/D, Length -0.095" from Tip, 9/32" Stem                           |
| REC 556N  | Sierra 4x4 Turbo (Cosworth YB Engine)        | 1.260"/32.0mm  | Exhaust | O/S H/D +1.0mm, Nimonic, 9/32" Stem, Solid Cam Follows, PP0672 Collets |
| REC 899N  |                                              | 1.299"/33.0mm  | Exhaust | O/S H/D, Nimonic, 9/32" Stem, Length -0.098" from Tip, PP0672 Collets  |
| REC 347/1 | Sierra RS2000 Non-Turbo                      | 1.400"/35.6mm  | Inlet   | 9/32" Stem, 2WD, 4 Valve Head, PP0672 Collets                          |
| REC 348/1 | Sierra RS2000 Non-Turbo                      | 1.225"/31.1mm  | Exhaust | 9/32" Stem, 2WD, 4 Valve Head, PP0672 Collets                          |



## Coventry Climax (Retainers Available)

| Part No. | Application           | Head Diameter | Type    | Comments |
|----------|-----------------------|---------------|---------|----------|
| REC 557  | FWE 1216cc 4 Cylinder | 1.343"/34.1mm | Inlet   |          |
| REC 674  |                       | 1.456"/37.0mm | Inlet   | O/S H/D  |
| REC 637  | FWE 1216cc 4 Cylinder | 1.200"/30.5mm | Exhaust |          |
| REC 675  |                       | 1.259"/32.0mm | Exhaust | O/S H/D  |

## Datsun - see Nissan

| Part No. | Application         | Head Diameter | Type    | Comments                          |
|----------|---------------------|---------------|---------|-----------------------------------|
| REC 533  | 200SX (SR20 Engine) | 1.417"/36.0mm | Inlet   | O/S H/D +2mm, Early Roller Rocker |
| REC 534  | 200SX (SR20 Engine) | 1.220"/31.0mm | Exhaust | O/S H/D +1mm, Early Roller Rocker |

|           |                                   |               |         |                                |
|-----------|-----------------------------------|---------------|---------|--------------------------------|
| REC 610   | Primera 2.0 Litre (SR20DE Engine) | 1.342"/34.0mm | Inlet   | Std. Cam Setup, Roller Rockers |
| REC 610/1 |                                   | 1.342"/34.0mm | Inlet   | Length -1mm, Roller Rockers    |
| REC 611   | Primera 2.0 Litre (SR20DE Engine) | 1.181"/30.0mm | Exhaust | Std. Cam Setup, Roller Rockers |

|           |                                  |               |         |                                |
|-----------|----------------------------------|---------------|---------|--------------------------------|
| REC 610   | Serena 2.0 Litre (SR20DE Engine) | 1.342"/34.0mm | Inlet   | Std. Cam Setup, Roller Rockers |
| REC 610/1 |                                  | 1.342"/34.0mm | Inlet   | Length -1mm, Roller Rockers    |
| REC 611   | Serena 2.0 Litre (SR20DE Engine) | 1.181"/30.0mm | Exhaust | Std. Cam Setup, Roller Rockers |

|         |                           |               |         |                |
|---------|---------------------------|---------------|---------|----------------|
| REC 312 | Cherry / Sunny, 100A, A12 | 1.500"/38.1mm | Inlet   | O/S H/D +3.1mm |
| REC 314 | Cherry / Sunny, 100A, A12 | 1.260"/32.0mm | Exhaust | O/S H/D +3mm   |

|         |                                |               |         |              |
|---------|--------------------------------|---------------|---------|--------------|
| REC 352 | Sunny / Pulsar, E15 EGI Engine | 1.535"/39.0mm | Inlet   | O/S H/D +2mm |
| REC 353 | Sunny / Pulsar, E15 EGI Engine | 1.259"/32.0mm | Exhaust | O/S H/D +1mm |

|         |                    |               |         |                                                |
|---------|--------------------|---------------|---------|------------------------------------------------|
| REC 944 | 180B / 240Z / 260Z | 1.654"/42.0mm | Inlet   | Std. Length 117.3mm<br>L18/L20B/L24/L26 Engine |
| REC 367 |                    | 1.732"/44.0mm | Inlet   | Std. Length 117.3mm<br>L18/L20B/L24/L26 Engine |
| REC 945 | 180B / 240Z / 260Z | 1.299"/33.0mm | Exhaust | Std. Length 117.3mm<br>L18/L20B/L24/L26 Engine |
| REC 368 |                    | 1.378"/35.0mm | Exhaust | Length 116.2mm<br>L18/L20B/L24/L26 Engine      |
| REC 369 |                    | 1.417"/36.0mm | Exhaust | Length 116.2mm<br>L18/L20B/L24/L26 Engine      |

|         |                     |               |         |                            |
|---------|---------------------|---------------|---------|----------------------------|
| REC 684 | 1992 Micra, Group A | 1.083"/27.5mm | Inlet   | K11 1275cc (CG13DF Engine) |
| REC 685 | 1992 Micra, Group A | 0.885"/22.5mm | Exhaust | K11 1275cc (CG13DF Engine) |

## Ferrari - (Retainers & Collets Available) (PTO)

| Part No. | Application | Head Diameter | Type    | Comments |
|----------|-------------|---------------|---------|----------|
| REC 791  | Daytona 365 | 1.653"/42.0mm | Inlet   |          |
| REC 792  | Daytona 365 | 1.473"/37.4mm | Exhaust |          |

|         |          |               |         |                                             |
|---------|----------|---------------|---------|---------------------------------------------|
| REC 479 | 246 Dino | 1.670"/42.5mm | Inlet   | DOHC 2.4 Litre, V6, 2 Valve Engine          |
| REC 381 | 246      | 1.445"/36.7mm | Exhaust | DOHC 2.4 Litre, V6, 2 Valve Engine          |
| REC 480 | 246 Dino | 1.446"/36.7mm | Exhaust | No Dome, DOHC 2.4 Litre, V6, 2 Valve Engine |

|         |                                 |               |         |          |
|---------|---------------------------------|---------------|---------|----------|
| REC 410 | 250 GT 1963 (V12, Lusso Engine) | 1.417"/36.0mm | Inlet   | Hard Tip |
| REC 411 | 250 GT 1963 (V12, Lusso Engine) | 1.232"/31.3mm | Exhaust | Hard Tip |
| REC 496 | 250 GT 1963 (V12, Lusso Engine) | 1.338"/34.0mm | Inlet   | Hard Tip |
| REC 497 | 250 GT 1963 (V12, Lusso Engine) | 1.181"/30.0mm | Exhaust | Hard Tip |



## Ferrari - (Retainers & Collets Available) - Continued

| Part No.  | Application                      | Head Diameter | Type    | Comments                                                                            |
|-----------|----------------------------------|---------------|---------|-------------------------------------------------------------------------------------|
| REC 784/1 | 195 1960's (2 Litre, V12)        | 1.181"/30.0mm | Exhaust | <b>Std. Valve</b> , Hard Tip (Tapered Groove)                                       |
| REC 788   | 250 GTO (early)                  | 1.338"/34.0mm | Inlet   | Tapered Groove Replaced with Bullock Groove<br>Use Lotus Collets 10823 (X026E0045Z) |
| REC 785/1 |                                  | 1.260"/32.0mm | Inlet   | <b>Std. Valve</b> , Hard Tip (Tapered Groove)                                       |
| REC 785   |                                  | 1.260"/32.0mm | Inlet   | Taper Groove Replaced with Bullock Groove<br>Std. Length, Use Lotus Collets 10823   |
| REC 784/1 | 250 GTO (early)                  | 1.181"/30.0mm | Exhaust | <b>Std. Valve</b> , Hard Tip (Tapered Groove)                                       |
| REC 784   |                                  | 1.181"/30.0mm | Exhaust | Taper Groove Replaced with Bullock Groove<br>Std. Length, Use Lotus Collets 10823   |
| REC 821/1 | 250 / 275 GTO (Single Cam Heads) | 1.496"/38.0mm | Inlet   | <b>Std. Valve</b> , Hard Tip                                                        |
| REC 821   |                                  | 1.496"/38.0mm | Inlet   | Seat to Groove -1mm, Hard Tip                                                       |
| REC 786   |                                  | 1.496"/38.0mm | Inlet   | Length -1.5mm, Seat to Groove -1.0mm, Hard Tip                                      |
| REC 822/1 | 250 / 275 GTO (Single Cam Heads) | 1.275"/32.4mm | Exhaust | <b>Std. Valve</b> , Hard Tip                                                        |
| REC 822   |                                  | 1.275"/32.4mm | Exhaust | Seat to Groove -1mm, Hard Tip                                                       |
| REC 787   |                                  | 1.275"/32.4mm | Exhaust | Length -1.5mm, Seat to Groove -1mm, Hard Tip                                        |
| REC 468   | 288 GTO Turbo 1984-85            | 1.138"/28.9mm | Inlet   | <b>Std. Valve</b> , RK7 Collets                                                     |
| REC 469   | 288 GTO Turbo 1984-85            | 1.023"/26mm   | Exhaust | Std., One Piece Nimonic 80A, RK7 Collets                                            |
| REC 468   | 308, 328 V8, (4 Valve)           | 1.138"/28.9mm | Inlet   | <b>Std. Valve</b> , RK7 Collets                                                     |
| REC 469   | 308, 328 V8, (4 Valve)           | 1.023"/26mm   | Exhaust | Std., One Piece Nimonic 80A, RK7 Collets                                            |
| REC 380   | 308 GTB / 365 / 512BB / Boxer    | 1.647"/41.8mm | Inlet   | 2 Valve Engine                                                                      |
| REC 381   | 308 GTB / 365 / 512BB / Boxer    | 1.445"/36.7mm | Exhaust | 2 Valve Engine                                                                      |
| REC 468   | F40 1987-92                      | 1.138"/28.9mm | Inlet   | <b>Std. Valve</b> , RK7 Collets                                                     |
| REC 469   | F40 1987-92                      | 1.023"/26mm   | Exhaust | Std., One Piece Nimonic 80A, RK7 Collets                                            |
| REC 900   | 330 / 365 GTC / 365 2+2 V12      | 1.653/42.0mm  | Inlet   | <b>Std. Valve</b>                                                                   |
| REC 437   |                                  | 1.670"/42.5mm | Inlet   | O/S H/D + 0.5mm, Length +2.5mm                                                      |
| REC 901   | 330 / 365 GTC / 365 2+2 V12      | 1.472"/37.4mm | Exhaust | <b>Std. Valve</b>                                                                   |
| REC 438   |                                  | 1.472"/37.4mm | Exhaust | Length +2.5mm                                                                       |

## Fiat

| Part No. | Application                           | Head Diameter  | Type    | Comments                       |
|----------|---------------------------------------|----------------|---------|--------------------------------|
| REC 388  | 2 Litre, DOHC Lampredi Engine 1966-80 | 1.692"/43.0mm  | Inlet   | O/S H/D +1mm, Length +1.4mm    |
| REC 389  | 2 Litre, DOHC Lampredi Engine 1966-80 | 1.466"/37.25mm | Exhaust | O/S H/D +1.25mm, Length +1.4mm |

## Ford - (Retainers, Collets and Guides Available) (PTO)



### Escort, Cortina & Capri - Rimflow (TL20H & TL20L Engine)

Std. Valve Length's Inlet, Seat to Tip 109.1mm, Total 111.1mm  
Exhaust, Seat to Tip 109.1mm, Total 110.5mm

| Part No.  | Application                     | Head Diameter | Type    | Comments                                                                                      |
|-----------|---------------------------------|---------------|---------|-----------------------------------------------------------------------------------------------|
| SV 320/1  | Pinto 2.0 Litre Group A Rimflow | 1.655"/42.0mm | Inlet   | Std. H/D, Triple Groove, Std. MK8 Collets<br>Std. Length (Seat to Tip 109.1mm, Total          |
| SV 320/2  | Pinto 2.0 Litre Group 1 Rimflow | 1.750"/44.4mm | Inlet   | O/S H/D+2.5mm, Triple Groove, Std. MK8 Collets<br>Length's (Seat to                           |
| SV 320/3  |                                 | 1.750"/44.4mm | Inlet   | O/S H/D+2.5mm, Single Groove, Kit, RK8 Collets<br>Length's (Seat to                           |
| SV 320/56 | Pinto 2.0 Litre Group A Rimflow | 1.420"/36.0mm | Exhaust | Std. H/D, Triple Groove, Std. MK8 Collets<br>Std. Length (Seat to Tip 109.1mm, Total          |
| SV 320/57 | Pinto 2.0 Litre Group 1 Rimflow | 1.500"/38.0mm | Exhaust | O/S H/D+2mm, Triple Groove, Std. MK8 Collets<br>Length's (Seat to Tip 109.7mm, Total 111.6mm) |
| SV 320/58 |                                 | 1.500"/38.0mm | Exhaust | O/S H/D+2mm, Single Groove, Kit, RK8 Collets<br>Std. Length (Seat to Tip 109.1mm, Total       |

### Anglia Super, Capri, Consul Classic, Consul Cortina (109E, 112E, 115E, 123E 1198cc Pre Crossflow)

| Part No.                                                             | Application                            | Head Diameter | Type    | Comments                                                         |
|----------------------------------------------------------------------|----------------------------------------|---------------|---------|------------------------------------------------------------------|
| Anglia, Prefect (105E, 106E, 107E 997cc) Kent Engine (Pre Crossflow) |                                        |               |         |                                                                  |
| REC 201                                                              | 105E, 106E, 107E 1959-1968             | 1.562/39.6mm  | Inlet   | O/S H/D+7.4mm/, Std. Stem & Groove                               |
| REC 957                                                              | 105E, 106E, 107E 1959-1968             | 1.562/39.6mm  | Inlet   | O/S H/D+7.4mm/, Std. Stem<br>Crossflow Triple Collets & Retainer |
| REC 202                                                              | 105E, 106E, 107E 1959-1968             | 1.358"/34.5mm | Exhaust | O/S H/D+4.3mm, Std. Stem & Groove                                |
| REC 958                                                              | 105E, 106E, 107E 1959-1968             | 1.358"/34.5mm | Exhaust | O/S H/D+4.3mm/, Std. Stem<br>Crossflow Triple Collets & Retainer |
| REC 201                                                              | 109E, 112E, 113E, 115E, 123E 1962-1968 | 1.562/39.6mm  | Inlet   | O/S H/D+7.4mm/, Std. Stem & Groove                               |
| REC 957                                                              | 105E, 106E, 107E 1959-1968             | 1.562/39.6mm  | Inlet   | O/S H/D+7.4mm/, Std. Stem<br>Crossflow Triple Collets & Retainer |
| REC 202                                                              | 109E, 112E, 113E, 115E, 123E 1962-1968 | 1.358"/34.5mm | Exhaust | O/S H/D+4.3mm, Std. Stem & Groove                                |
| REC 958                                                              | 105E, 106E, 107E 1959-1968             | 1.358"/34.5mm | Exhaust | O/S H/D+4.3mm/, Std. Stem<br>Crossflow Triple Collets & Retainer |

### Cortina, Consul, Capri, Classic, Corsair (116E, 120E, 122E 1498cc / 1599cc) Kent Engine (Pre Crossflow)

|         |                            |               |         |                                                                  |
|---------|----------------------------|---------------|---------|------------------------------------------------------------------|
| REC 201 | 116E, 122E 1962-1967       | 1.562/39.6mm  | Inlet   | O/S H/D+3.1mm/, Std. Stem & Groove                               |
| REC 957 | 105E, 106E, 107E 1959-1968 | 1.562/39.6mm  | Inlet   | O/S H/D+7.4mm/, Std. Stem<br>Crossflow Triple Collets & Retainer |
| REC 202 | 116E, 122E 1962-1967       | 1.358"/34.5mm | Exhaust | O/S H/D+4.3mm, Std. Stem & Groove                                |
| REC 958 | 105E, 106E, 107E 1959-1968 | 1.358"/34.5mm | Exhaust | O/S H/D+4.3mm/, Std. Stem<br>Crossflow Triple Collets & Retainer |

### Consul, Capri, Cortina, Corsair & All GT Models (122E / 1498cc) Kent Engine (Pre Crossflow)

|         |                            |               |         |                                                                  |
|---------|----------------------------|---------------|---------|------------------------------------------------------------------|
| REC 201 | 122E 1963-1967             | 1.562/39.6mm  | Inlet   | O/S H/D+3.9mm/, Std. Stem & Groove                               |
| REC 957 | 105E, 106E, 107E 1959-1968 | 1.562/39.6mm  | Inlet   | O/S H/D+7.4mm/, Std. Stem<br>Crossflow Triple Collets & Retainer |
| REC 202 | 122E 1963-1967             | 1.358"/34.5mm | Exhaust | O/S H/D+2.8mm, Std. Stem & Groove                                |
| REC 958 | 105E, 106E, 107E 1959-1968 | 1.358"/34.5mm | Exhaust | O/S H/D+4.3mm/, Std. Stem<br>Crossflow Triple Collets & Retainer |

**\*\* Also See Cosworth MAE / SCA / SCB for 9/32" Stem \*\***

### Thames Van (307E / 997cc, 308E / 1198cc) Kent Engine (Pre Crossflow)

|         |                             |      |               |         |                                                                  |
|---------|-----------------------------|------|---------------|---------|------------------------------------------------------------------|
| REC 201 | 307E 1959-1968<br>1962-1968 | 308E | 1.562/39.6mm  | Inlet   | O/S H/D+7.4mm/, Std. Stem & Groove                               |
| REC 957 | 105E, 106E, 107E 1959-1968  |      | 1.562/39.6mm  | Inlet   | O/S H/D+7.4mm/, Std. Stem<br>Crossflow Triple Collets & Retainer |
| REC 202 | 307E 1959-1968<br>1962-1968 | 308E | 1.358"/34.5mm | Exhaust | O/S H/D+4.3mm, Std. Stem & Groove                                |
| REC 958 | 105E, 106E, 107E 1959-1968  |      | 1.358"/34.5mm | Exhaust | O/S H/D+4.3mm/, Std. Stem<br>Crossflow Triple Collets & Retainer |

## Ford - (Retainers, Collets and Guides Available) (PTO) - Continued



Anglia Super, Capri, Consul Classic, Consul Cortina (109E, 112E, 115E, 123E 1198cc Pre Crossflow)

| Part No.                                                                                                        | Application                         | Head Diameter | Type    | Comments                                        |
|-----------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------|---------|-------------------------------------------------|
| Anglia, Cortina, Capri & Corsair (KL13 (711M), KL13H (2735E) & 2737E)                                           |                                     |               |         |                                                 |
| <b>Kent Engine Crossflow (Small Chamber)</b> Std. Triple Groove Valves, use 11355 retainer with REC 002 Springs |                                     |               |         |                                                 |
| REC 203                                                                                                         | Cross-Flow Pre 1970 (Small Chamber) | 1.556"/39.5mm | Inlet   | O/S H/D +1.3mm, Std. Stem, Length & Groove Std. |
| REC 204                                                                                                         |                                     | 1.625"/41.3mm | Inlet   | O/S H/D +3.1mm, Std. Stem, Length & Groove Std. |
| REC 205                                                                                                         | Cross-Flow Pre 1970 (Small Chamber) | 1.358"/34.5mm | Exhaust | O/S H/D +3mm, Std. Stem, Length & Groove Std.   |

Escort, Cortina, Capri & Fiesta: 940cc/1100cc/1300cc/1600cc (KL11, KL13, KL13G (711M) & KL13L

**Kent Engine Crossflow (Flat Head)**    Std. Triple Groove Valves, use 11355 retainer with REC 002 Springs

|          |                                 |               |         |                                                                                                                    |
|----------|---------------------------------|---------------|---------|--------------------------------------------------------------------------------------------------------------------|
| REC 306  | Cross-Flow (Flat Head), Mexico  | 1.558"/39.6mm | Inlet   | O/S H/D, Std. Stem & Groove (Triple)                                                                               |
| REC 247  | Cross-Flow (Flat Head), Clubman | 1.580"/40.1mm | Inlet   | O/S H/D, 9/32" Stem, 88G459 Collets<br>10460 Spring Platforms, REC 005 Guides<br>10303/10020 Retainers             |
| REC 250  |                                 | 1.580"/40.1mm | Inlet   | O/S H/D, 5/16" Stem<br>10823 (LK1808) Collets                                                                      |
| REC 260  | Cross-Flow (Flat Head)          | 1.600"/40.6mm | Inlet   | O/S H/D, Std. Stem & Groove (Triple)                                                                               |
| REC 208  | Cross-Flow (Flat Head), Mexico  | 1.625"/41.3mm | Inlet   | O/S H/D, Std. Stem & Groove (Triple)                                                                               |
| REC 208W |                                 | 1.625"/41.3mm | Inlet   | O/S H/D, Std. Stem & Groove (Triple) UnderCut                                                                      |
| REC 292  | Cross-Flow (Flat Head)          | 1.625"/41.3mm | Inlet   | O/S H/D, 9/32" Stem, 88G459 Collets<br>10460 Spring Platforms, REC 005 Guides<br>10303/10020 Retainers             |
| REC 265  |                                 | 1.680"/42.6mm | Inlet   | O/S H/D, 9/32" Stem, 88G459 Collets<br>10460 Spring Platforms, REC 005 Guides<br>10303/10020 Retainers             |
| REC 239  | Cross-Flow (Flat Head), Clubman | 1.720"/43.7mm | Inlet   | O/S H/D, 5/16" Stem, Offset Guide<br>10823 (LK1808) Collets                                                        |
| REC 307  | Cross-Flow (Flat Head), Mexico  | 1.330"/33.7mm | Exhaust | O/S H/D +2.2mm, Std Stem & Groove (Triple)                                                                         |
| REC 425  |                                 | 1.337"/33.9mm | Exhaust | O/S H/D + 2.4mm , 5/16" Stem<br>10823 (LK1808) Collets                                                             |
| REC 261  | Cross-Flow (Flat Head)          | 1.340"/34.0mm | Exhaust | O/S H/D, Std. Stem & Groove (Triple)                                                                               |
| REC 248  | Cross-Flow (Flat Head), Clubman | 1.340"/34.0mm | Exhaust | O/S H/D, 9/32" Stem, 88G459 Collets<br>10460 Spring Platforms, REC 005 Guides<br>10303/10020 Retainers             |
| REC 251  |                                 | 1.340"/34.0mm | Exhaust | O/S H/D, 5/16" Stem<br>10823 (LK1808) Collets                                                                      |
| REC 209  | Cross-Flow (Flat Head), Mexico  | 1.375"/34.9mm | Exhaust | O/S H/D, Std. Stem & Groove (Triple)                                                                               |
| REC 209W |                                 | 1.375"/34.9mm | Exhaust | O/S H/D, Std. Stem & Groove (Triple) Undercut                                                                      |
| REC 293  | Cross-Flow (Flat Head)          | 1.375"/34.9mm | Exhaust | O/S H/D, 9/32" Stem, 88G459 Collets<br>10460 Spring Platforms, REC 005 Guides<br>10303/10020 Retainers             |
| REC 266  |                                 | 1.420"/36.0mm | Exhaust | O/S H/D, 9/32" Stem, Offset Guide, 88G459 Collets<br>10460 Spring Platforms, REC 005 Guides, 10303/10020 Retainers |
| REC 240  | Cross-Flow (Flat Head), Clubman | 1.420"/36.0mm | Exhaust | O/S H/D, 5/16" Stem, Offset Guide<br>10823 (LK1808) Collets                                                        |

# Ford - (Retainers, Collets and Guides Available) (PTO) - Continued

Escort, Cortina, Capri & Fiesta 940cc/1100cc/1300cc/1600cc KL11, KL13, KL13G, 711M & KL13L Engine



| Part No. | Application               | Head Diameter  | Type    | Comments                                    |
|----------|---------------------------|----------------|---------|---------------------------------------------|
| REC 245  | Cross-Flow (Deep Chamber) | 1.600"/40.65mm | Inlet   | 5/16" Stem, Length 4.145"                   |
| REC 270  |                           | 1.650"/41.9mm  | Inlet   | 9/32" Stem, <b>88G459 or PP0672 Collets</b> |
| REC 246  | Cross-Flow (Deep Chamber) | 1.400"/35.6mm  | Exhaust | 5/16" Stem, Length 4.145"                   |
| REC 271  |                           | 1.425"/36.2mm  | Exhaust | 9/32" Stem, <b>88G459 or PP0672 Collets</b> |

## Formula Ford (1600cc Cross-Flow Engine)

|       |              |        |         |                                        |
|-------|--------------|--------|---------|----------------------------------------|
| 57974 | Formula Ford | 1.556" | Inlet   | Std. Ford Inlet Valve - 711M-6507 DA   |
| 55011 | Formula Ford | 1.332" | Exhaust | Std. Ford Exhaust Valve - 791M-6505 DA |

## Escort, Cortina & Capri (TL16H & TL16L Engine)

|         |                                 |               |         |                                                                         |
|---------|---------------------------------|---------------|---------|-------------------------------------------------------------------------|
| REC 855 | RS2000, Pinto 2.0 Litre Group 1 | 1.750"/44.4mm | Inlet   | Single Groove<br><b>Kit, RK8 Collets</b> or Essex V6 Collets &          |
| REC 917 | RS2000, Pinto 2.0 Litre         | 1.800"/45.7mm | Inlet   | O/S H/D, Single Groove<br><b>Kit, RK8 Collets</b> or Essex V6 Collets & |
| REC 856 | RS2000, Pinto 2.0 Litre         | 1.500"/38.0mm | Exhaust | Single Groove<br><b>Kit, RK8 Collets</b> or Essex V6 Collets &          |

## Escort, Cortina & Capri (TL20H & TL20L Engine) Std. Length In. Seat/Tip 109.1mm, Total 111.1mm, Ex. Seat/Tip 109.1mm, Total 110.5mm

|           |                                 |               |         |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------|---------------------------------|---------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| REC 382   | RS2000, Pinto 2.0 Litre         | 1.653"/42.0mm | Inlet   | Std. H/D, Triple Groove Std. <b>Group 2 Length, MK8</b> (Seat to Tip 111.1mm, Total O/S H/D +2.5mm, U/Cut Stem                                                                                                                                                                                                                                                                                                                            |
| 2581      | RS2000, Pinto 2.0 Litre Group 1 | 1.750"/44.4mm | Inlet   | Triple Groove, <b>Std. MK8 Collets</b> (Seat to Tip 109.0mm, Total 112.4mm)                                                                                                                                                                                                                                                                                                                                                               |
| REC 213   |                                 | 1.750"/44.4mm | Inlet   | O/S H/D +2.5mm, U/Cut Stem Triple Groove, <b>Std. MK8 Collets</b> (Seat to Tip 109.0mm, Total 112.4mm)                                                                                                                                                                                                                                                                                                                                    |
| REC 296   | RS2000, Pinto 2.0 Litre         | 1.759"/44.4mm | Inlet   | O/S H/D +2.5mm, Single Groove, <b>Std. Length Kit, RK8 Collets</b> or Essex V6 Collets & Retainers Length's (Seat to Tip 109.9mm, O/S H/D +2.5mm, Single Groove, <b>Length +1mm Kit, RK8 Collets</b> or Essex V6 Collets & Retainers Length's (Seat to Tip 110.9mm, O/S H/D +2.5mm, Triple Groove, <b>Std. MK8 Collets</b> Length's (Seat to Tip 109mm, Total O/S H/D +3.5mm Triple Groove, <b>Std. MK8 Collets</b> Length's (Seat to Tip |
| REC 296/1 |                                 | 1.759"/44.4mm | Inlet   | Same as REC 882/1, but <b>std. MK8 collet</b>                                                                                                                                                                                                                                                                                                                                                                                             |
| REC 296T  |                                 | 1.759"/44.4mm | Inlet   | O/S H/D, Single Groove, <b>Std. Length Kit, RK8 Collets</b> or Essex V6 Collets & Retainers Length's (Seat to Tip 109.9mm, Retainers Length's (Seat to Tip 109.9mm, Same as REC 882/1 except Seat to Groove -                                                                                                                                                                                                                             |
| REC 454   |                                 | 1.800"/45.7mm | Inlet   | Std. H/D, <b>Group 2 Length</b>                                                                                                                                                                                                                                                                                                                                                                                                           |
| REC 882T  |                                 | 1.800"/45.7mm | Inlet   | Triple Groove, <b>Std. MK8 Collets</b> Length's (Seat to Tip 111.1mm, Total 112.4mm)                                                                                                                                                                                                                                                                                                                                                      |
| REC 882/1 |                                 | 1.800"/45.7mm | Inlet   | O/S H/D +0.5mm, Stellite Seat Triple Groove, <b>Std. MK8 Collets</b> <b>Std. Length</b> (Seat to Tip 108.8mm, Total O/S H/D +2mm, Wide Seat, <b>Group 2 Length</b>                                                                                                                                                                                                                                                                        |
| REC 950   |                                 | 1.800"/45.7mm | Inlet   | Triple Groove, Std. MK8 Collets Length's (Seat to Tip 111.1mm, Total 112.4mm)                                                                                                                                                                                                                                                                                                                                                             |
| REC 383   |                                 | 1.417"/36.0mm | Exhaust | O/S H/D +2mm, Narrow Seat, <b>Group 2 Length</b>                                                                                                                                                                                                                                                                                                                                                                                          |
| REC 426   | RS2000, Pinto 2.0 Litre Group 1 | 1.437"/36.5mm | Exhaust | Triple Groove, <b>Std. MK8 Collets</b> Length's (Seat to Tip 111.1mm, Total 112.4mm)                                                                                                                                                                                                                                                                                                                                                      |
| REC 214   |                                 | 1.500"/38.0mm | Exhaust | O/S H/D +2mm, Triple Groove, <b>Std. MK8 Collets</b> Length's (Seat to Tip 113.6mm, Total 114.9mm)                                                                                                                                                                                                                                                                                                                                        |
| REC 214N  |                                 | 1.500"/38.0mm | Exhaust | O/S H/D +2mm, Single Groove                                                                                                                                                                                                                                                                                                                                                                                                               |
| REC 455   | RS2000, Pinto 2.0 Litre         | 1.500"/38.0mm | Exhaust | <b>Kit, RK8 Collets</b> or Essex V6 Collets & Retainers <b>Std. Length</b> (Seat to Tip                                                                                                                                                                                                                                                                                                                                                   |
| REC 297   |                                 | 1.500"/38.0mm | Exhaust | Same as REC 297 except Seat to Groove -0.050"                                                                                                                                                                                                                                                                                                                                                                                             |
| REC 951   |                                 | 1.500"/38.0mm | Exhaust | O/S H/D +2mm, Single Groove                                                                                                                                                                                                                                                                                                                                                                                                               |
| REC 297/1 |                                 | 1.500"/38.0mm | Exhaust | <b>Kit, RK8 Collets</b> or Essex V6 Collets & Retainers <b>Std. Length</b> (Seat to Tip                                                                                                                                                                                                                                                                                                                                                   |
| REC 297T  |                                 | 1.500"/38.0mm | Exhaust | O/S H/D +2mm, Triple Groove, <b>Std. MK8 Collets</b> Length's (Seat to Tip 109.0mm, Total                                                                                                                                                                                                                                                                                                                                                 |

## Ford - (Retainers, Collets and Guides Available) (PTO) - Continued

Capri / Granada (TV28 V6 Engine) Simease Ports



| Part No.                                                                                                               | Application                           | Head Diameter  | Type    | Comments                                                                               |
|------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------|---------|----------------------------------------------------------------------------------------|
| Formula Ford (2.0 Litre Pinto Engine)                                                                                  |                                       |                |         |                                                                                        |
| REC 924                                                                                                                | Formula Ford                          | 1.653"/42.0mm  | Inlet   | Std. Ford Inlet Valve - 70HM6507DD<br><b>Std. Length</b> (Seat to Tip 109.1mm, Total   |
| REC 925                                                                                                                | Formula Ford                          | 1.417"/ 36.0mm | Exhaust | Std. Ford Exhaust Valve - 70HM6505DE<br><b>Std. Length</b> (Seat to Tip 109.1mm, Total |
| Escort, Cortina & Capri (Warrior 4 Valve Engine) (TL20H & TL20L Engine)                                                |                                       |                |         |                                                                                        |
| REC 471                                                                                                                | Pinto 2.0 Litre, 4 Valve              | 1.415"/36.0mm  | Inlet   | Warrior Head                                                                           |
| REC 472                                                                                                                | Pinto 2.0 Litre, 4 Valve              | 1.262"/32.0mm  | Exhaust | Warrior Head                                                                           |
| Escort RS2000, Scorpio 2.0L (N7A Engine) & 2.3L (Y5A Engine) - <b>Not Duratec Engine</b>                               |                                       |                |         |                                                                                        |
| REC 678                                                                                                                | RS2000 Mk5 & Mk6 / Scorpio 1991-96    | 1.320"/33.5mm  | Inlet   | Std. H/D                                                                               |
| REC 679                                                                                                                | RS2000 Mk5 & Mk6 / Scorpio 1991-96    | 1.182"/30.0mm  | Exhaust | Std. H/D                                                                               |
| Capri (Essex V6) (EV30H Engine)                                                                                        |                                       |                |         |                                                                                        |
| REC 216                                                                                                                | 3.0 Litre Essex V6 Group 1            | 1.750"/44.4mm  | Inlet   | O/S H/D +3.3mm, O/S Length +0.7mm                                                      |
| REC 290                                                                                                                | 3.0 Litre Essex V6 Group 2            | 1.800"/45.7mm  | Inlet   | O/S H/D +4.6mm, O/S Length +0.7mm                                                      |
| REC 217                                                                                                                | 3.0 Litre Essex V6 Group 1            | 1.620"/41.1mm  | Exhaust | O/S H/D +4.2mm, O/S Length +0.7mm                                                      |
| Capri (V6) (Cologne Engine)                                                                                            |                                       |                |         |                                                                                        |
| REC 294                                                                                                                | 2.8 Litre Cologne V6                  | 1.750"/44.4mm  | Inlet   | O/S H/D +4.5mm                                                                         |
| REC 295                                                                                                                | 2.8 Litre Cologne V6                  | 1.500"/38.0mm  | Exhaust | O/S H/D +2.0mm, MK8 Collets                                                            |
| Capri / Granada (EAO V6 Engine) Simease Ports                                                                          |                                       |                |         |                                                                                        |
| REC 429                                                                                                                | 2.9 Litre Cologne V6                  | 1.750"/44.4mm  | Inlet   | O/S H/D +2.4mm                                                                         |
| REC 430                                                                                                                | 2.9 Litre Cologne V6                  | 1.500"/38.0mm  | Exhaust | O/S H/D +2.0mm, MK8 Collets                                                            |
| Sierra, Escort, Fiesta, Orion (HL1.6 C.V.H. Engine)                                                                    |                                       |                |         |                                                                                        |
| REC 267                                                                                                                | 1.6 Litre C.V.H.                      | 1.670"/42.4mm  | Inlet   | Std. H/D, MK8 Collets                                                                  |
| REC 596                                                                                                                |                                       | 1.670"/42.4mm  | Inlet   | Std. H/D, 9/32" Stem, <b>88G459 or PP0672 Collets</b>                                  |
| REC 581                                                                                                                |                                       | 1.700"/43.1mm  | Inlet   | O/S H/D +0.9mm, MK8 Collets                                                            |
| REC 268                                                                                                                | 1.6 Litre C.V.H.                      | 1.470"/37.3mm  | Exhaust | Std. H/D, Std. Stem, Triple Groove, , MK8 Collets                                      |
| REC 872                                                                                                                |                                       | 1.490"/37.8mm  | Exhaust | O/S H/D +0.5mm, Std. Stem, Triple Groove, MK8                                          |
| REC 597                                                                                                                |                                       | 1.470"/37.3mm  | Exhaust | Std. H/D, 9/32" Stem, <b>88G459 or PP0672 Collets</b>                                  |
| C-Max, Focus, Fiesta & Mondeo III 2.0, 2.3 & 2.5 Litre (4 Cyl. <b>Duratec</b> - AODA, AODB, CJBA, CJBB & N4JB engines) |                                       |                |         |                                                                                        |
| REC 849                                                                                                                | C-Max 2.0 02/2007-on                  | 1.378"/35.0mm  | Inlet   | Std. H/D                                                                               |
| REC 835                                                                                                                |                                       | 1.417"/36.0mm  | Inlet   | O/S H/D +1.0mm                                                                         |
| REC 916                                                                                                                | Focus C-Max 2.0 C-Max 03/04 - 03/07   | 1.457"/37.0mm  | Inlet   | O/S H/D +2.0mm                                                                         |
| REC 936                                                                                                                |                                       | 1.378"/35.0mm  | Inlet   | <b>High Flow</b> , Std. H/D                                                            |
| REC 937                                                                                                                | Focus II Cabriolet 2.0 10/2006-on     | 1.417"/36.0mm  | Inlet   | <b>High Flow</b> , O/S H/D +1.0mm                                                      |
| REC 938                                                                                                                |                                       | 1.457"/37.0mm  | Inlet   | <b>High Flow</b> , O/S H/D +2.0mm                                                      |
| REC 850                                                                                                                | Fiesta V ST150 03/2005-on             | 1.181"/30.0mm  | Exhaust | Std. H/D                                                                               |
| REC 932                                                                                                                |                                       | 1.181"/30.0mm  | Exhaust | <b>High Power N/A</b> , Std. H/D - <b>(No Undercut)</b>                                |
| REC 850N                                                                                                               | Focus II 2.0 11/2004-on               | 1.181"/30.0mm  | Exhaust | <b>High Power Turbo</b> , Nimonic, Std. H/D                                            |
| REC 836                                                                                                                |                                       | 1.220"/31.0mm  | Exhaust | O/S H/D +1mm                                                                           |
| REC 918                                                                                                                | Mondeo III 2.0 16V 11/00 - 08/07      | 1.260"/32.0mm  | Exhaust | O/S H/D +2mm - <b>(No Undercut)</b>                                                    |
| Sierra (Cosworth YB Engine)                                                                                            |                                       |                |         |                                                                                        |
| REC 878                                                                                                                | Sierra Non-Turbo (Cosworth YB Engine) | 1.459"/37.0mm  | Inlet   | 9/32" Stem, PP0672 Collets                                                             |
| REC 879                                                                                                                | Sierra Non-Turbo (Cosworth YB Engine) | 1.222"/31.0mm  | Exhaust | 9/32" Stem, PP0672 Collets                                                             |
| Sierra - <i>PTO</i>                                                                                                    |                                       |                |         |                                                                                        |
| REC 753                                                                                                                | Sierra 4x4 Turbo (Ford YB Engine)     | 1.382"/35.1mm  | Inlet   | Std. , RK7 Collets, 7mm Stem                                                           |
| 51162                                                                                                                  | Sierra 4x4 Turbo (Cosworth YB Engine) | 1.428"/36.2mm  | Inlet   | Turbo, PP0672 Collets                                                                  |
| REC 898                                                                                                                |                                       | 1.496"/38.0mm  | Inlet   | Turbo, O/S H/D, Length -0.095" from Tip, PP0672                                        |
| REC 754                                                                                                                | Sierra 4x4 Turbo (Ford YB Engine)     | 1.226"/31.1mm  | Exhaust | Std., Hydraulic Followers, RK7 Collets, 8mm Stem                                       |
| REC 754N                                                                                                               |                                       | 1.226"/31.1mm  | Exhaust | Nimonic, Std., Hyd. Followers, RK7, 8mm Stem                                           |
| REC 556N                                                                                                               | Sierra 4x4 Turbo (Cosworth YB Engine) | 1.260"/32.0mm  | Exhaust | Nimonic, 9/32" Stem, Mk2 Head, PP0672 Collets                                          |
| REC 899N                                                                                                               |                                       | 1.299"/33.0mm  | Exhaust | Nimonic, 9/32" Stem, O/S H/D<br>Length -0.098" from Tip. PP0672                        |

## Ford (Retainers and Guides Available) - Continued

Escort, Fiesta, Mondeo, Focus 1800cc/2000cc (RD, RK & RQ Zetec E Engine) - 'Silver Top' Iron Block



| Part No.                  | Application                               | Head Diameter | Type    | Comments                                        |
|---------------------------|-------------------------------------------|---------------|---------|-------------------------------------------------|
| <b>Sierra - Continued</b> |                                           |               |         |                                                 |
| REC 555                   | Sierra 4x4 Non-Turbo (Cosworth YB Engine) | 1.427"/36.2mm | Inlet   | 9/32" Stem, Mk2 Head, 0.218" Dia. U/Cut, PP0672 |
| REC 555/1                 |                                           | 1.427"/36.2mm | Inlet   | 9/32" Stem, Mk2 Head, 0.232" Dia. U/Cut, PP0672 |
| REC 529                   |                                           | 1.500"/38.1mm | Inlet   | 9/32" Stem, Mk2 Head, PP0672 Collets            |
| REC 556                   | Sierra 4x4 Non-Turbo (Cosworth YB Engine) | 1.260"/32.0mm | Exhaust | 9/32" Stem, Mk2 Head, PP0672 Collets            |
| REC 530                   |                                           | 1.300"/33.0mm | Exhaust | 9/32" Stem, Mk2 Head, PP0672 Collets            |

### RS2000 Sierra

|           |                         |               |         |                                               |
|-----------|-------------------------|---------------|---------|-----------------------------------------------|
| REC 347/1 | Sierra RS2000 Non-Turbo | 1.400"/35.6mm | Inlet   | 9/32" Stem, 2WD, 4 Valve Head, PP0672 Collets |
| REC 348/1 | Sierra RS2000 Non-Turbo | 1.225"/31.1mm | Exhaust | 9/32" Stem, 2WD, 4 Valve Head, PP0672 Collets |

### Fiesta V, Focus II, Fusion

(FYDA, DB, DC, DD, DH, JA, JB, HWDA, DB, HXDA & SHDA 1.6L Zetec SE Alloy Block Yamaha Engine)

|         |                                   |               |         |                                             |
|---------|-----------------------------------|---------------|---------|---------------------------------------------|
| REC 880 | Zetec Sigma 1600cc Ti VCT 2001-on | 1.240"/31.5mm | Inlet   | Triple Groove, O/S H/D +1.5mm, MK6 Collets  |
| REC 881 | Zetec Sigma 1600cc Ti VCT 2001-on | 0.984"/25.0mm | Exhaust | Triple Groove, O/S H/D +0.85mm, MK6 Collets |

### Puma Coupe DOHC (ZH17 Zetec S VCT MHA & MHB Engine, ) 1700cc Alloy Block, Yamaha Engine

|           |                                   |               |         |                                                      |
|-----------|-----------------------------------|---------------|---------|------------------------------------------------------|
| REC 902   | Ford Super Puma 09/1997 - 07/2002 | 1.181"/30.0mm | Inlet   | Swindon Engine (1mm Radius)                          |
| REC 902/1 |                                   | 1.181"/30.0mm | Inlet   | SK6 Collet/Retainer 11256, NOT std. collets/retainer |
| REC 902/2 |                                   | 1.181"/30.0mm | Inlet   | Std. Collets & Retainer                              |
| REC 903   | Ford Super Puma 09/1997 - 07/2002 | 1.024"/26.0mm | Exhaust | Swindon Engine (1mm Radius)                          |
| REC 903/1 |                                   | 1.024"/26.0mm | Exhaust | SK6 Collet/Retainer 11256, NOT std. collets/retainer |
| REC 903/2 |                                   | 1.024"/26.0mm | Exhaust | Std. Collets & Retainer                              |

### Escort, Fiesta, Mondeo, Focus, Orion 1800cc/2000cc, (Zetec Engine) - 'Silver Top', Iron Block

|         |                                          |               |         |                                                                   |
|---------|------------------------------------------|---------------|---------|-------------------------------------------------------------------|
| REC 696 | Zetec 1.800/2.000 Litre 05/1991 - 8/1997 | 1.319"/33.5mm | Inlet   | Single Groove, O/S H/D +1.5mm, Std. O/E Collets or Conversion SK6 |
| REC 697 | Zetec 1.800/2.000 Litre 05/1991 - 8/1997 | 1.181"/30.0mm | Exhaust | Single Groove, O/S H/D +2.0mm, Std. O/E Collets or Conversion SK6 |

### Escort, Fiesta, Mondeo, Focus 1800cc/2000cc, (Zetec R Engine) - 'Black Top', Iron Block

|         |                                        |               |         |                                                                                                              |
|---------|----------------------------------------|---------------|---------|--------------------------------------------------------------------------------------------------------------|
| REC 920 | Zetec 1.800/2.000 Litre 06/1998 - 2004 | 1.339"/34.0mm | Inlet   | Triple Groove, O/S H/D +1mm, MK6 Collets Dished, Seat to Groove +1mm Retainer 10991 (+2.5mm on spring for    |
| REC 921 | Zetec 1.800/2.000 Litre 06/1998 - 2004 | 1.142"/29.0mm | Exhaust | Triple Groove, O/S H/D +1mm, MK6 Collets Flat Back, Seat to Groove +1mm Retainer 10991 (+2.5mm on spring for |

### Focus 2000cc, (Zetec ST170 - ALDA Engine) - 'Silver Top, Badged Duratec', Iron Block

|         |                           |               |         |                                                                                                              |
|---------|---------------------------|---------------|---------|--------------------------------------------------------------------------------------------------------------|
| REC 922 | Zetec 2.000 Litre 2002-on | 1.358"/34.5mm | Inlet   | Triple Groove, O/S H/D +1mm, MK6 Collets Dished, Seat to Groove +1mm Retainer 10991 (+2.5mm on spring for    |
| REC 923 | Zetec 2.000 Litre 2002-on | 1.142"/29.0mm | Exhaust | Triple Groove, O/S H/D +1mm, MK6 Collets Flat Back, Seat to Groove +1mm Retainer 10991 (+2.5mm on spring for |

## Hart

| Part No. | Application                 | Head Diameter | Type | Comments |
|----------|-----------------------------|---------------|------|----------|
| REC 447  | 420R Formula 2 (4 Cylinder) | 1.500"/38.0mm |      | Inlet    |
| REC 713  |                             | 1.550"/39.4mm |      | Inlet    |
| REC 724  |                             | 1.600"/40.6mm |      | Inlet    |
| REC 448  | 420R Formula 2 (4 Cylinder) | 1.250"/31.7mm |      | Exhaust  |
| REC 723  |                             | 1.300"/33.0mm |      | Exhaust  |

## Hillman

| Part No. | Application | Head Diameter | Type    | Comments       |
|----------|-------------|---------------|---------|----------------|
| REC 747  | Imp 1963-76 | 1.400"/35.5mm | Inlet   | O/S H/D +3mm   |
| REC 748  | Imp 1963-76 | 1.125"/28.5mm | Exhaust | O/S H/D +0.7mm |



## Honda

| Part No. | Application              | Head Diameter   | Type    | Comments                   |
|----------|--------------------------|-----------------|---------|----------------------------|
| REC 669  | Civic VTI EK4            | 33.0mm          | Inlet   | B16a, B16b & B18c Engines  |
| REC 670  | Civic VTI EK4            | 28.1mm          | Exhaust | B16a, B16b & B18c Engines  |
| REC 669  | Civic Type R EK9         | 33.0mm          | Inlet   | B16a, B16b & B18c Engines  |
| REC 670  | Civic Type R EK9         | 28.1mm          | Exhaust | B16a, B16b & B18c Engines  |
| REC 946  | Civic Type R 2001-2011   | 35.0mm Std. H/D | Inlet   | K20A Engines               |
| REC 948  |                          | 36.0mm          | Inlet   | O/S H/D +1mm, K20A Engines |
| REC 947  |                          | 30.0mm Std. H/D | Exhaust | K20A Engines               |
| REC 949  |                          | 31.0mm          | Exhaust | O/S H/D +1mm, K20A Engines |
| REC 669  | Integra Type R DC2       | 33.0mm          | Inlet   | B16a, B16b & B18c Engines  |
| REC 670  | Integra Type R DC2       | 28.1mm          | Exhaust | B16a, B16b & B18c Engines  |
| REC 946  | Integra Type R 2001-2006 | 35.0mm Std. H/D | Inlet   | K20A Engines               |
| REC 948  |                          | 36.0mm          | Inlet   | O/S H/D +1mm, K20A Engines |
| REC 947  |                          | 30.0mm Std. H/D | Exhaust | K20A Engines               |
| REC 949  |                          | 31.0mm          | Exhaust | O/S H/D +1mm, K20A Engines |
| REC 946  | Accord Euro R 2001-2006  | 35.0mm Std. H/D | Inlet   | K20A Engines               |
| REC 948  |                          | 36.0mm          | Inlet   | O/S H/D +1mm, K20A Engines |
| REC 947  |                          | 30.0mm Std. H/D | Exhaust | K20A Engines               |
| REC 949  |                          | 31.0mm          | Exhaust | O/S H/D +1mm, K20A Engines |
| REC 948  | S2000 1999-2009          | 36.0mm Std. H/D | Inlet   | AP1 (F20C) Engines         |
| REC 949  | S2000 1999-2009          | 31.0mm Std. H/D | Exhaust | AP1 (F20C) Engines         |

## Jaguar (Guides & Collets Available)

| Part No. | Application                        | Head Diameter | Type    | Comments                                                                   |
|----------|------------------------------------|---------------|---------|----------------------------------------------------------------------------|
| REC 400  | 3.4, 3.8, 4.2 Litre (Series 1 & 2) | 1.800"/45.7mm | Inlet   | XK Engine, 6 Cylinder, O/S H/D +0.050" 10823 (EBC2997) Collets             |
| REC 552  | 3.4, 3.8, 4.2 Litre (Series 3)     | 1.875"/47.6mm | Inlet   | XK Engine, 6 Cylinder, Fuel Injection 10823 (EBC2997) Collets              |
| REC 716  | 3.4, 3.8, 4.2 Litre (6 Cylinder)   | 2.000"/50.8mm | Inlet   | XK Engine, Std. Length, <b>No Seat on Valve</b> 10823 (EBC2997) Collets    |
| REC 885  |                                    | 2.000"/50.8mm | Inlet   | XK Engine, Length +0.050", <b>No Seat on Valve</b> 10823 (EBC2997) Collets |
| REC 401  | 3.4, 3.8, 4.2 Litre (6 Cylinder)   | 1.650"/41.9mm | Exhaust | XK Engine, Std. Length, O/S H/D +0.025" 10823 (EBC2997) Collets            |
| REC 886  |                                    | 1.650"/41.9mm | Exhaust | XK Engine, +0.050" Length, O/S H/D +0.025" 10823 (EBC2997) Collets         |

## E-Type, XJS, XJ12, Daimler Double Six, Panther J7.2 & Panther De Ville

|         |                          |               |         |                                                               |
|---------|--------------------------|---------------|---------|---------------------------------------------------------------|
| REC 649 | V12 5.3 Litre, 1971-1981 | 1.800"/45.7mm | Inlet   | O/S H/D +4.4mm, Pre HE Cylinder Heads 10823 (EBC2997) Collets |
| REC 650 | V12 5.3 Litre, 1971-1981 | 1.450"/36.8mm | Exhaust | O/S H/D +2.3mm, Pre HE Cylinder Heads 10823 (EBC2997) Collets |

## Lada

| Part No. | Application                                                             | Head Diameter | Type    | Comments                                                                                                              |
|----------|-------------------------------------------------------------------------|---------------|---------|-----------------------------------------------------------------------------------------------------------------------|
| REC 408  | 1200, 1300, 1500 Vaz, 1974 - 1979<br>1600 Niva 4x4, 1977-1994 (Group A) | 1.456"/37.0mm | Inlet   | 1198cc - 1011, 2101, 2102 Engines<br>1294cc - 21011, 21033 Engines & 1451cc - 2103 Engine<br>Std. H/D. 1568cc - 2106. |
| REC 409  | 1200, 1300, 1500 Vaz, 1974 - 1979<br>1600 Niva 4x4, 1977-1994 (Group A) | 1.240"/31.5mm | Exhaust | 1198cc - 1011, 2101, 2102 Engines<br>1294cc - 21011, 21033 Engines & 1451cc - 2103 Engine<br>Std. H/D. 1568cc - 2106. |

## Lancia - (Collets Available)

| Part No. | Application           | Head Diameter | Type    | Comments                                  |
|----------|-----------------------|---------------|---------|-------------------------------------------|
| REC 468  | Thema 8.32, 1986-1991 | 1.138"/37.0mm | Inlet   | V8, 4 Valve (Ferrari Engine), RK7 Collets |
| REC 469  | Thema 8.32, 1986-1991 | 1.020"/25.9mm | Exhaust | V8, 4 Valve (Ferrari Engine), RK7 Collets |

## Lotus (Guides & Collets Available) (PTO)



| Part No.  | Application                          | Head Diameter | Type    | Comments                                                         |
|-----------|--------------------------------------|---------------|---------|------------------------------------------------------------------|
| REC 218   | 1558cc Twin Cam                      | 1.530"/38.8mm | Inlet   | Std. Length, 10823 (X026E0045Z) Collets                          |
| REC 355   |                                      | 1.530"/38.8mm | Inlet   | Race Length, 10823 (X026E0045Z) Collets                          |
| REC 220   | 1558cc Sprint Group II,Twin Cam      | 1.563"/39.7mm | Inlet   | EN52, Std. Length, 10823 (X026E0045Z) Collets                    |
| REC 220/1 | 1558cc Sprint Group II,Twin Cam      | 1.563"/39.7mm | Inlet   | 214N, Std. Length, 10823 (X026E0045Z) Collets                    |
| REC 220/2 | 1558cc Sprint Group II,Twin Cam      | 1.563"/39.7mm | Inlet   | Length + 0.100", 10823 (X026E0045Z) Collets                      |
| REC 244   | 1558cc Twin Cam                      | 1.625"/41.2mm | Inlet   | Std. Length, 10823 (X026E0045Z) Collets                          |
| REC 223   | 1558cc BRM,Twin Cam                  | 1.610"/40.9mm | Inlet   | Race Length, 10823 (X026E0045Z) Collets                          |
| REC 225   |                                      | 1.625"/41.2mm | Inlet   | Race Length, 10823 (X026E0045Z) Collets                          |
| REC 470   | 1558cc Twin Cam                      | 1.700"/43.1mm | Inlet   | Race Length, 10823 (X026E0045Z) Collets                          |
| REC 219   | 1558cc Twin Cam                      | 1.322"/33.5mm | Exhaust | Std. Length, 10823 (X026E0045Z) Collets                          |
| REC 219/1 |                                      | 1.322"/33.5mm | Exhaust | Length +0.100", 10823 (X026E0045Z) Collets                       |
| REC 356   |                                      | 1.322"/33.5mm | Exhaust | Race Length, 10823 (X026E0045Z) Collets                          |
| REC 222   |                                      | 1.375"/34.9mm | Exhaust | Std. Length, 10823 (X026E0045Z) Collets                          |
| REC 320   |                                      | 1.400"/35.5mm | Exhaust | Std. Length, 10823 (X026E0045Z) Collets                          |
| REC 226   | 1558cc BRM,Twin Cam                  | 1.375"/34.9mm | Exhaust | Race Length, Small Base Circle Cam<br>10823 (X026E0045Z) Collets |
| REC 227   |                                      | 1.400"/35.5mm | Exhaust | Race Length, 10823 (X026E0045Z) Collets                          |
| REC 264   | 1558cc Twin Cam                      | 1.440"/36.5mm | Exhaust | Race Length, 10823 (X026E0045Z) Collets                          |
| REC 252   | 907 2.0 Litre                        | 1.450"/36.8mm | Inlet   | O/S H/D +1.27mm, Race Length, PP0672 Collets                     |
| REC 252/1 |                                      | 1.450"/36.8mm | Inlet   | O/S H/D +1.27mm, 30 Deg. Break Race Length                       |
| REC 253   | 907 2.0 Litre                        | 1.275"/32.4mm | Exhaust | O/S H/D +1.50mm, Race Length, PP0672 Collets                     |
| REC 253/1 |                                      | 1.275"/32.4mm | Exhaust | O/S H/D +1.50mm, 25 deg.Angle Race Length                        |
| REC 739   | Elise 1800cc, 18K4F Engine           | 1.161"/29.5mm | Inlet   | SK6 Collets                                                      |
| REC 740   | Elise 1800cc, 18K4F Engine           | 1.023"/26.0mm | Exhaust | SK6 Collets                                                      |
| REC 740/1 |                                      | 1.023"/26.0mm | Exhaust | Undercut, SK6 Collets                                            |
| REC 757   | Elise 1800cc, VVC/VHPD, 18K4K Engine | 31.5mm/1.240" | Inlet   | Std. H/D, SK6 Collets                                            |
| REC 767   |                                      | 32.5mm/1.280" | Inlet   | O/S H/D +1mm, SK6 Collets                                        |
| REC 768   |                                      | 33.5mm/1.319" | Inlet   | O/S H/D +2mm, SK6 Collets                                        |
| REC 846   |                                      | 34.5mm/1.358" | Inlet   | O/S H/D +3mm, SK6 Collets                                        |
| REC 758   | Elise 1800cc, VVC/VHPD, 18K4K Engine | 27.3mm/1.079" | Exhaust | Std. H/D, SK6 Collets                                            |
| REC 758/1 |                                      | 27.3mm/1.079" | Exhaust | Undercut, Std. H/D, SK6 Collets                                  |
| REC 783   |                                      | 28.5mm/1.122" | Exhaust | O/S H/D +1mm, SK6 Collets                                        |
| REC 783/1 |                                      | 28.5mm/1.122" | Exhaust | Undercut, O/S H/D +1mm, SK6 Collets                              |
| REC 868   | Esprit 1996 (918 DOHC Twin Turbo V8) | 33.5mm        | Inlet   | Std.Valve, EN52                                                  |
| REC 869   | Esprit 1996 (918 DOHC Twin Turbo V8) | 30.0mm        | Exhaust | Std.Valve, Nimonic 80A/EN52 Bi-metal                             |

## Maserati

| Part No. | Application        | Head Diameter | Type    | Comments  |
|----------|--------------------|---------------|---------|-----------|
| REC 639  | Merek 3.0 Litre SS | 1.689"/43.0mm | Exhaust | V6 Engine |



| Part No. | Application                      | Head Diameter | Type    | Comments                 |
|----------|----------------------------------|---------------|---------|--------------------------|
| REC 698  | 323 4WD GT-R, DOHC, 16v, 1839 cc | 1.299"/33.0mm | Inlet   | Std. Inlet, Engine BPD   |
| REC 699  | 323 4WD GT-R, DOHC, 16v, 1839 cc | 1.102"/28.0mm | Exhaust | Std. Exhaust, Engine BPD |

## MX5

|         |                                   |               |         |                                                   |
|---------|-----------------------------------|---------------|---------|---------------------------------------------------|
| REC 928 | MX5 MK1 1600cc 1989-98 Eunos / UK | 31.0mm/1.220" | Inlet   | Std. H/D., Hyd. Lifters, (Engine B61P), Flat      |
| REC 930 |                                   | 32.0mm/1.260" | Inlet   | O/S H/D. + 1mm, Hyd. Lifters, (Engine B61P), Flat |
| REC 929 | MX5 MK1 1600cc 1989-98 Eunos / UK | 26.2mm/1.032" | Exhaust | Std. H/D., Hyd. Lifters, (Engine B61P), Flat      |
| REC 931 |                                   | 27.2mm/1.071" | Exhaust | O/S H/D. +1mm, Hyd. Lifters, (Engine B61P), Flat  |
| REC 926 | MX5 MK2 1800cc 2001-2005          | 33.0mm/1.299" | Inlet   | Std. H/D., VVT, Solid Lifters (Engine BPZ3), Flat |
| REC 927 | MX5 MK2 1800cc 2001-2005          | 28.0mm/1.102" | Exhaust | Std. H/D., VVT, Solid Lifters (Engine BPZ3), Flat |

## MG - (Collets & Guides Available) (PTO)

### MGB - Rimflow (SV)

| Part No.  | Application | Head Diameter | Type    | Comments                         |
|-----------|-------------|---------------|---------|----------------------------------|
| SV 310/1  | MGB Rimflow | 1.565"/39.7mm | Inlet   | Std. H/D, Std. 11/32" Stem       |
| SV 310/2  |             | 1.625"/41.2mm | Inlet   | O/S H/D +1.5mm, Std. 11/32" Stem |
| SV 310/3  |             | 1.690"/43.0mm | Inlet   | O/S H/D +3.2mm, Std. 11/32" Stem |
| SV 310/5  |             | 1.748"/44.4mm | Inlet   | O/S H/D +4.7mm, Std. 11/32" Stem |
| SV 310/50 | MGB Rimflow | 1.350"/34.2mm | Exhaust | Std. H/D, Std. 11/32" Stem       |
| SV 310/51 |             | 1.440"/36.6mm | Exhaust | O/S H/D +2.4mm, Std. 11/32" Stem |
| SV 310/52 |             | 1.469"/37.3mm | Exhaust | O/S H/D +3.1mm, Std. 11/32" Stem |

### MG TB, TC & Early TD Mk1

|          |                    |               |         |                 |
|----------|--------------------|---------------|---------|-----------------|
| REC 1733 | 1250cc Xpag Engine | 1.320"/33.5mm | Inlet   | Std. H/D        |
| REC 1734 | 1250cc Xpag Engine | 1.220"/31.0mm | Exhaust | O/S H/D +0.030" |
| REC 523  |                    | 1.245"/31.6mm | Exhaust | O/S H/D +0.060" |

### MG TD Mk2 & TF

|          |                           |               |         |                                   |
|----------|---------------------------|---------------|---------|-----------------------------------|
| REC 1735 | 1250cc/1466cc Xpag Engine | 1.437"/36.5mm | Inlet   | Std. H/D                          |
| REC 1736 | 1250cc/1466cc Xpag Engine | 1.358"/35.5mm | Exhaust | U/S H/D 0.020", (Std. H/D 1.375") |

### MGA

|         |               |               |         |                         |
|---------|---------------|---------------|---------|-------------------------|
| REC 140 | MGA 1955-1962 | 1.281"/32.5mm | Exhaust | Stellite Seat, Std. H/D |
|---------|---------------|---------------|---------|-------------------------|

### Metro Turbo

|       |                               |                |         |                                               |
|-------|-------------------------------|----------------|---------|-----------------------------------------------|
| 38418 | MG Metro Turbo 1275cc 1982-on | 1.215"/30.85mm | Exhaust | O/S H/D +1.5mm, 8mm Stems, Triple Groove, MK8 |
|-------|-------------------------------|----------------|---------|-----------------------------------------------|

### MGB - (4 cylinder)

|         |                                      |               |         |                                                   |
|---------|--------------------------------------|---------------|---------|---------------------------------------------------|
| REC 112 | MGB 1800cc 4 Cyl. 1967-80 (Eng. 18V) | 1.690"/43.0mm | Inlet   | O/S H/D +3.2mm, Std. 11/32" Stem                  |
| REC 793 |                                      | 1.700"/43.2mm | Inlet   | O/S H/D +3.5mm, 7mm Stem, <b>Kit, KK7 Collets</b> |
| REC 125 | MGB 1800cc 4 Cyl. 1967-80 (Eng. 18V) | 1.355"/34.4mm | Exhaust | Std. H/D, Stellite Seat, Std. 11/32" Stem         |
| REC 113 |                                      | 1.440"/36.6mm | Exhaust | O/S H/D +2.4mm, Std. 11/32" Stem                  |
| REC 794 |                                      | 1.456"/37.0mm | Exhaust | O/S H/D +2.6mm, 7mm Stem, <b>Kit, KK7 Collets</b> |

# MG - (Collets & Guides Available) (PTO)



| Part No.          | Application         | Head Diameter | Type    | Comments                                                                    |
|-------------------|---------------------|---------------|---------|-----------------------------------------------------------------------------|
| <b>MGB - (V8)</b> |                     |               |         |                                                                             |
| REC 315           | V8 3500cc 1973-1976 | 1.630"/41.4mm | Inlet   | O/S H/D +3.5mm, Std. Stem, Std.                                             |
| REC 460           |                     | 1.692"/43.0mm | Inlet   | O/S H/D +4.9mm, Std. Stem, Std. Groove                                      |
| REC 477           |                     | 1.692"/43.0mm | Inlet   | O/S H/D +4.9mm, 5/16" Stem, <b>Triple Groove, MK8</b>                       |
| REC 477/1         |                     | 1.692"/43.0mm | Inlet   | O/S H/D +4.9mm, 5/16" Stem<br><b>10823 (X026E0045Z) Lotus T/Cam Collets</b> |
| REC 508           |                     | 1.750"/44.4mm | Inlet   | O/S H/D +6.3mm, 5/16" stem, <b>Triple Groove, MK8</b>                       |
| REC 456           |                     | 1.844"/46.8mm | Inlet   | O/S H/D +8.7mm, 5/16" stem, <b>Triple Groove, MK8</b>                       |
| REC 117           | V8 3500cc 1973-1976 | 1.350"/34.3mm | Exhaust | O/S H/D +1.0mm, Std. Stem, Std. Groove                                      |
| REC 316           |                     | 1.400"/35.5mm | Exhaust | O/S H/D +2.2mm, Std. Stem, Std. Groove                                      |
| REC 461           |                     | 1.455"/37.0mm | Exhaust | O/S H/D +3.7mm, Std. Stem, Std. Groove                                      |
| REC 478           |                     | 1.455"/37.0mm | Exhaust | O/S H/D +3.7mm, 5/16" Stem, <b>Triple Groove, MK8</b>                       |
| REC 478/1         |                     | 1.455"/37.0mm | Exhaust | O/S H/D +3.7mm, 5/16" Stem<br><b>10823 (Z026E0045Z) Lotus T/Cam Collets</b> |
| REC 509           |                     | 1.470"/37.3mm | Exhaust | O/S H/D +4mm, 5/16" Stem, <b>Triple Groove, MK8</b>                         |
| REC 457           |                     | 1.556"/39.5mm | Exhaust | O/S H/D +6.2mm, 5/16" Stem, <b>Triple Groove, MK8</b>                       |

## MGC

|         |               |               |         |                         |
|---------|---------------|---------------|---------|-------------------------|
| REC 141 | MGC 1967-1969 | 1.770"/45.0mm | Inlet   | O/S H/D 0.020" / +0.5mm |
| REC 142 | MGC 1967-1969 | 1.563"/39.7mm | Exhaust | Stellite Seat           |

## MGF

|         |                               |               |         |             |
|---------|-------------------------------|---------------|---------|-------------|
| REC 757 | MGF (VVC Timing)              | 31.5mm/1.240" | Inlet   | SK6 Collets |
| REC 767 |                               | 32.5mm/1.280" | Inlet   | SK6 Collets |
| REC 768 |                               | 33.5mm/1.319" | Inlet   | SK6 Collets |
| REC 846 | MGF (VVC Timing), Touring Car | 34.5mm/1.358" | Inlet   | SK6 Collets |
| REC 758 | MGF (VVC Timing)              | 27.3mm/1.079" | Exhaust | SK6 Collets |
| REC 783 |                               | 28.5mm/1.122" | Exhaust | SK6 Collets |

## Nissan (see Datsun)



| Part No.  | Application                       | Head Diameter | Type    | Comments                          |
|-----------|-----------------------------------|---------------|---------|-----------------------------------|
| REC 610   | Primera 2.0 Litre (SR20DE Engine) | 1.417"/36.0mm | Inlet   | Std. Cam Setup, Roller Rockers    |
| REC 610/1 |                                   | 1.417"/36.0mm | Inlet   | Length -1mm, Roller Rockers       |
| REC 611   | Primera 2.0 Litre (SR20DE Engine) | 1.220"/31.0mm | Exahust | Std. Cam Setup, Roller Rockers    |
| REC 610   | Serena 2.0 Litre (SR20DE Engine)  | 1.417"/36.0mm | Inlet   | Std. Cam Setup, Roller Rockers    |
| REC 610/1 |                                   | 1.417"/36.0mm | Inlet   | Length -1mm, Roller Rockers       |
| REC 611   | Serena 2.0 Litre (SR20DE Engine)  | 1.220"/31.0mm | Exahust | Std. Cam Setup, Roller Rockers    |
| REC 312   | Cherry / Sunny, 100A,A12          | 1.500"/38.1mm | Inlet   | O/S H/D +3.1mm                    |
| REC 314   | Cherry / Sunny, 100A,A12          | 1.260"/32.0mm | Exahust | O/S H/D +3mm                      |
| REC 352   | Sunny / Pulsar, E15 EGI Engine    | 1.535"/39.0mm | Inlet   | O/S H/D +2mm                      |
| REC 353   | Sunny / Pulsar, E15 EGI Engine    | 1.259"/32.0mm | Exahust | O/S H/D +1mm                      |
| REC 533   | 200SX (SR20 Engine)               | 1.417"/36.0mm | Inlet   | O/S H/D +2mm, Early Roller Rocker |
| REC 534   | 200SX (SR20 Engine)               | 1.220"/31.0mm | Exahust | O/S H/D +1mm, Early Roller Rocker |
| REC 610   | 200SX (SR20DE Engine)             | 1.342"/34.0mm | Inlet   | Std. Cam Setup, Roller Rockers    |
| REC 610/1 |                                   | 1.342"/34.0mm | Inlet   | Length -1mm, Roller Rockers       |
| REC 611   | 200SX (SR20DE Engine)             | 1.181"/30.0mm | Exahust | Std. Cam Setup, Roller Rockers    |
| REC 684   | Micra, Group A 1992-2002          | 1.083"/27.5mm | Inlet   | K11 1275cc (CGI 3DF Engine)       |
| REC 685   | Micra, Group A 1992-2002          | 0.885"/22.5mm | Exhaust | K11 1275cc (CGI 3DF Engine)       |

## Opel - (Collets Available)

| Part No. | Application                             | Head Diameter | Type    | Comments                             |
|----------|-----------------------------------------|---------------|---------|--------------------------------------|
| REC 288  | Manta. Kadett (Group A) 2 valve 1970-78 | 42.0mm/1.653" | Inlet   | 9mm Stem, Single Groove, KK9 Collets |
| REC 286  | Manta. Kadett (Group 1) 2 valve 1970-78 | 45.0mm/1.771" | Inlet   | 9mm Stem, Single Groove, KK9 Collets |
| REC 359  | Manta. Kadett 2 valve 1970-78           | 46.0mm/1.811" | Inlet   | 9mm Stem, Single Groove, KK9 Collets |
| REC 289  | Manta. Kadett (Group A) 2 valve 1970-78 | 37.0mm/1.456" | Exhaust | 9mm Stem, Single Groove, KK9 Collets |
| REC 287  | Manta. Kadett (Group 1) 2 valve 1970-78 | 40.0mm/1.575  | Exhaust | 9mm Stem, Single Groove, KK9 Collets |
| REC 291  | Manta. Kadett (Group B) 2 valve 1970-78 | 41.0mm/1.614  | Exhaust | 9mm Stem, Single Groove, KK9 Collets |
| REC 358  | Manta. Kadett 2 valve 1970-78           | 45.0mm/1.772" | Inlet   | 8mm Stem, Triple Groove, MK8 Collets |
| REC 357  |                                         | 46.0mm/1.811" | Inlet   | 8mm Stem, Single Groove, RK8 Collets |
| REC 451  |                                         | 47.0mm/1.850" | Inlet   | 8mm Stem, Triple Groove, MK8 Collets |
| REC 364  | Manta. Kadett 2 valve 1970-78           | 40.0mm/1.575  | Exhaust | 8mm Stem, Triple Groove, MK8 Collets |
| REC 365  |                                         | 41.0mm/1.614" | Exhaust | 8mm Stem, Triple Groove, MK8 Collets |
| REC 513  | Manta, Ascona 400 2.4L 4 valve 1981-84  | 37.0mm/1.460" | Inlet   | 7mm Stem, Triple Groove, MK7 Collets |
| REC 514  | Manta, Ascona 400 2.4L 4 valve 1981-84  | 32.4mm/1.275" | Exhaust | 7mm Stem, Triple Groove, MK7 Collets |

## Peugeot - (Collets Available) (PTO)

| Part No. | Application                              | Head Diameter | Type    | Comments                                                                      |
|----------|------------------------------------------|---------------|---------|-------------------------------------------------------------------------------|
| REC 859  | 106 1.3i, Rallye 1294cc, 8 Valve 1994-on | 40.3mm/1.585" | Inlet   | TU2/J2 Engine, O/S H/D + 1.0mm, MK7 Collets                                   |
| REC 860  | 106 1.3i, Rallye 1294cc, 8 Valve 1994-on | 32.3mm/1.270" | Exhaust | TU2/J2 Engine, O/S H/D + 1.0mm, MK7 Collets                                   |
| REC 859  | 106 XiS, Rallye 1361cc, 8 Valve 1991-on  | 40.3mm/1.585" | Inlet   | TU3F/J2K, TU2/J2 Engine, O/S H/D + 1.0mm<br><b>45 Deg. Seat</b> , MK7 Collets |
| REC 860  | 106 XiS, Rallye 1361cc, 8 Valve 1991-on  | 32.3mm/1.270" | Exhaust | TU3F/J2K, TU2/J2 Engine, O/S H/D + 1.0mm, MK7                                 |
| REC 859  | 106 XSI 1361cc, 8 Valve 1996-on          | 40.3mm/1.585" | Inlet   | TU5JP, TU5J2 Engine, O/S H/D + 1.0mm, MK7                                     |
| REC 860  | 106 XSI 1361cc, 8 Valve 1996-on          | 32.3mm/1.270" | Exhaust | TU5JP, TU5J2 Engine, O/S H/D + 1.0mm, MK7                                     |
| REC 859  | 106 1587cc, 8 Valve 1994-on              | 40.3mm/1.585" | Inlet   | TU5JP/J2 Engine, O/S H/D + 1.0mm, MK7 Collets                                 |
| REC 860  | 106 1587cc, 8 Valve 1994-on              | 32.3mm/1.270" | Exhaust | TU5JP/J2 Engine, O/S H/D + 1.0mm, MK7 Collets                                 |



## Peugeot - (Collets Available) - Continued

| Part No.             | Application                                | Head Diameter  | Type    | Comments                                                                                                  |
|----------------------|--------------------------------------------|----------------|---------|-----------------------------------------------------------------------------------------------------------|
| REC 833              | 106 1.6i, GTI 1587cc 16 Valve 5/96-2003    | 29.50mm/1.161" | Inlet   | TU5J4 (NFX) Engine, O/S H/D + 0.76mm, LK6                                                                 |
| REC 834<br>REC 834/1 | 106 1.6i, GTI 1587cc 16 Valve 5/96-2003    | 25.50mm/1.004" | Exhaust | TU5J4 (NFX) Engine, O/S H/D + 1.00mm, LK6<br>Stellite Seat, <b>REC 834/1 - No Stellite Seat</b>           |
| REC 911              | 205 1580cc, 1905cc, 1984-on                | 42.50mm/1.673" | Inlet   | XU5, XU7, XU9 Engine (8 Valve)<br>O/S H/D + 1.0mm, KK8 Collets                                            |
| REC 912              | 205 1580cc, 1905cc, 1984-on                | 35.50mm/1.397" | Exhaust | XU5, XU7, XU9 Engine (8 Valve)<br>O/S H/D + 1.0mm, KK8 Collets                                            |
| REC 859              | 206 1580cc, 8 Valve 06/1998-on             | 40.3mm/1.585"  | Inlet   | TU5JP/J2 Engine, O/S H/D + 1.0mm, MK7 Collets                                                             |
| REC 860              | 206 1580cc, 8 Valve 06/1998-on             | 32.3mm/1.270"  | Exhaust | TU5JP/J2 Engine, O/S H/D + 1.0mm, MK7 Collets                                                             |
| REC 915              | 206 1600cc 16 Valve 9/2000-on              | 31.5mm/1.240"  | Inlet   | TU5JP4 (NFU) Engine, Std. H/D, LK6                                                                        |
| REC 908              |                                            | 32.30mm/1.270" | Inlet   | TU5JP4 (NFU) Engine, O/S H/D + 1.00mm, LK6                                                                |
| REC 834<br>REC 834/1 | 206 1600cc 16 Valve 9/2000-on              | 25.50mm/1.004" | Exhaust | TU5J4 (NFX) Engine, O/S H/D + 1.00mm, LK6<br>Stellite Seat, <b>REC 834/1 - No Stellite Seat</b>           |
| REC 915              | 207 1600cc 16 Valve 02/2006-on             | 31.5mm/1.240"  | Inlet   | TU5JP4 (NFU) Engine, Std. H/D, LK6                                                                        |
| REC 908              | 207 1600cc 16 Valve 02/2006-on             | 32.30mm/1.270" | Inlet   | TU5JP4 (NFU) Engine, O/S H/D + 1.00mm, LK6                                                                |
| REC 834<br>REC 834/1 | 207 1600cc 16 Valve 02/2006-on             | 25.50mm/1.004" | Exhaust | TU5J4 (NFX) Engine, O/S H/D + 1.00mm, LK6<br>Stellite Seat, <b>REC 834/1 - No Stellite Seat</b>           |
| REC 911              | 305 1580cc, 1905cc, 1983-on                | 42.50mm/1.673" | Inlet   | XU5, XU7, XU9 Engine (8 Valve)<br>O/S H/D + 1.0mm, , KK8 Collets                                          |
| REC 912              | 305 1580cc, 1905cc, 1983-on                | 35.50mm/1.387" | Exhaust | XU5, XU7, XU9 Engine (8 Valve)<br>O/S H/D + 1.0mm, KK8 Collets                                            |
| REC 859              | 306 1587cc, 8 Valve 1993-on                | 40.3mm/1.585"  | Inlet   | TU5JP/J2 Engine, O/S H/D + 1.0mm, MK7 Collets                                                             |
| REC 860              | 306 1587cc, 8 Valve 1993-on                | 32.3mm/1.270"  | Exhaust | TU5JP/J2 Engine, O/S H/D + 1.0mm, MK7 Collets                                                             |
| REC 911              | 306 1762cc, 1905cc, 1993-on                | 42.50mm/1.673" | Inlet   | XU5, XU7, XU9 Engine (8 Valve)<br>O/S H/D + 1.0mm, , KK8 Collets                                          |
| REC 912              | 306 1762cc, 1905cc, 1993-on                | 35.50mm/1.387" | Exhaust | XU5, XU7, XU9 Engine (8 Valve)<br>O/S H/D + 1.0mm, KK8 Collets                                            |
| REC 795              | 306 2000cc, 1997-5/2001                    | 34.60mm/1.362" | Inlet   | XU10J4RS/JP4R Engine, (16 Valve) 6mm stem<br>O/S H/D + 0.5mm, LK6 Collets, <b>Single Groove</b>           |
| REC 909              | 406 2000cc, 1995-on<br>605 2000cc, 1995-on | 34.6mm/1.362"  | Inlet   | XU10J4RS/JP4R Engine, (16 valve) 6mm stem<br>O/S H/D + 0.5mm, <b>Tip +1mm</b> , LK6, <b>Single Groove</b> |
| REC 796              | 306 2000cc, 1997-5/2001<br>2000cc, 1995-on | 31.30mm/1.232" | Exhaust | XU10J4RSJP4R Engine, (16 Valve) 6mm stem<br>O/S H/D + 0.5mm, LK6 Collets, <b>Single Groove</b>            |
| REC 910              | 605 2000cc, 1995-on                        | 31.3mm/1.232"  | Exhaust | XU10J4RS/JP4R Engine, (16 valve) 6mm stem<br>O/S H/D + 0.5mm, <b>Tip +1mm</b> , LK6, <b>Single Groove</b> |
| REC 915              | 307 1600cc 16 Valve 8/2000-on              | 31.5mm/1.240"  | Inlet   | TU5JP4 (NFU) Engine, Std. H/D, LK6                                                                        |
| REC 908              |                                            | 32.30mm/1.270" | Inlet   | TU5JP4 (NFU) Engine, O/S H/D + 1.00mm, LK6                                                                |
| REC 834<br>REC 834/1 | 307 1600cc 16 Valve 8/2000-on              | 25.50mm/1.004" | Exhaust | TU5J4 (NFX) Engine, O/S H/D + 1.00mm, LK6<br>Stellite Seat, <b>REC 834/1 - No Stellite Seat</b>           |
| REC 911              | 405 1762cc, 07/1992-on                     | 42.5mm/1.673"  | Inlet   | XU7 Engine (8 Valve ), O/S H/D + 1 mm, KK8                                                                |
| REC 912              | 405 1762cc, 07/1992-on                     | 35.5mm/1.397"  | Exhaust | XU7 Engine (8 Valve ), O/S H/D + 1 mm, KK8                                                                |
| REC 911              | 406 SL, ST, SR 1762cc, 10/1995-on          | 42.5mm/1.673"  | Inlet   | XU7 Engine (8 Valve), O/S H/D + 1 mm, KK8                                                                 |
| REC 912              | 406 SL, ST, SR 1762cc, 10/1995-on          | 35.5mm/1.397"  | Exhaust | XU7 Engine (8 Valve), O/S H/D + 1 mm, KK8                                                                 |
| REC 911              | 806 SR 1762cc, 1996-on                     | 42.5mm/1.673"  | Inlet   | XU7 Engine (8 Valve ), O/S H/D + 1 mm, KK8                                                                |
| REC 912              | 806 SR 1762cc, 1996-on                     | 35.5mm/1.397"  | Exhaust | XU7 Engine (8 Valve ), O/S H/D + 1 mm, KK8                                                                |



| Part No. | Application                         | Head Diameter  | Type    | Comments                        |
|----------|-------------------------------------|----------------|---------|---------------------------------|
| REC 601  | Clio Williams 2.0 Litre 16v 1993-on | 1.213"/30.8mm  | Inlet   | F7P Engine (Triple Groove, MK7) |
| REC 602  | Clio Williams 2.0 Litre 16v 1993-on | 1.132"/28.75mm | Exhaust | F7P Engine (Triple Groove, MK7) |

## Rover - (Retainers, Collets and Guides Available)

| Part No. | Application                        | Head Diameter | Type    | Comments                               |
|----------|------------------------------------|---------------|---------|----------------------------------------|
| REC 315  | V8 3500cc, SDI V8 3500cc 1967-1975 | 1.630"/41.4mm | Inlet   | O/S H/D +5.5mm, Std. Stem, Std. Groove |
| REC 316  | V8 3500cc, SDI V8 3500cc 1967-1975 | 1.400"/35.5mm | Exhaust | O/S H/D +2.2mm, Std. Stem, Std. Groove |

|           |                   |               |         |                                                                      |
|-----------|-------------------|---------------|---------|----------------------------------------------------------------------|
| REC 460   | V8 3500cc 1975-on | 1.692"/43.0mm | Inlet   | O/S H/D +3.1mm, Std. Stem, Std. Groove                               |
| REC 477   |                   | 1.692"/43.0mm | Inlet   | O/S H/D +3.1mm, 5/16" Stem, Triple Groove, MK8                       |
| REC 477/1 |                   | 1.692"/43.0mm | Inlet   | O/S H/D +3.1mm, 5/16" Stem<br>10823 (X026E0045Z) Lotus T/Cam Collets |
| REC 508   |                   | 1.750"/44.4mm | Inlet   | O/S H/D +4.5mm, 5/16" stem, Triple Groove, MK8                       |
| REC 456   |                   | 1.844"/46.8mm | Inlet   | O/S H/D +6.9mm, 5/16" stem, Triple Groove, MK8                       |
| REC 117   | V8 3500cc 1975-on | 1.350"/34.3mm | Exhaust | Std. H/D                                                             |
| REC 461   |                   | 1.455"/37.0mm | Exhaust | O/S H/D +2.7mm, Std. Stem, Std. Groove                               |
| REC 478   |                   | 1.455"/37.0mm | Exhaust | O/S H/D +2.7mm, 5/16" Stem, Triple Groove, MK8                       |
| REC 478/1 |                   | 1.455"/37.0mm | Exhaust | O/S H/D +2.7mm, 5/16" Stem<br>10823 (X026E0045Z) Lotus T/Cam Collets |
| REC 509   |                   | 1.470"/37.3mm | Exhaust | O/S H/D +3mm, 5/16" Stem, Triple Groove, MK8                         |
| REC 457   |                   | 1.556"/39.5mm | Exhaust | O/S H/D +5.2mm, 5/16" Stem, Triple Groove, MK8                       |

|           |                               |                |         |                                 |
|-----------|-------------------------------|----------------|---------|---------------------------------|
| REC 676   | K Series 1400cc, 14K4F Engine | 27.7mm/1.092"  | Inlet   | Std. H/D, SK6 Collets           |
| REC 677   | K Series 1400cc, 14K4F Engine | 24.15mm/0.951" | Exhaust | Std. H/D, SK6 Collets           |
| REC 677/1 |                               | 24.15mm/0.951" | Exhaust | Undercut, Std. H/D, SK6 Collets |

|           |                               |                |         |                                        |
|-----------|-------------------------------|----------------|---------|----------------------------------------|
| REC 676   | K Series 1600cc, 16K4F Engine | 27.7mm/1.092"  | Inlet   | Std. H/D, SK6 Collets                  |
| REC 739   |                               | 29.5mm/1.161"  | Inlet   | O/S H/D +1.8mm, SK6 Collets            |
| REC 677   | K Series 1600cc, 16K4F Engine | 24.15mm/0.951" | Exhaust | Std. H/D, SK6 Collets                  |
| REC 677/1 |                               | 24.15mm/0.951" | Exhaust | Undercut, Std. H/D, SK6 Collets        |
| REC 740   |                               | 26.0mm/1.023"  | Exhaust | O/S H/D +1.85mm, SK6 Collets           |
| REC 740/1 |                               | 26.0mm/1.023"  | Exhaust | Undercut, O/S H/D +1.85mm, SK6 Collets |

|           |                               |                |         |                                        |
|-----------|-------------------------------|----------------|---------|----------------------------------------|
| REC 676   | K Series 1800cc, 18K4F Engine | 27.7mm/1.092"  | Inlet   | Std. H/D, SK6 Collets                  |
| REC 739   |                               | 29.5mm/1.161"  | Inlet   | O/S H/D +1.8mm, SK6 Collets            |
| REC 677   | K Series 1800cc, 18K4F Engine | 24.15mm/0.951" | Exhaust | Std. H/D, SK6 Collets                  |
| REC 677/1 |                               | 24.15mm/0.951" | Exhaust | Undercut, Std. H/D, SK6 Collets        |
| REC 740   |                               | 26.0mm/1.023"  | Exhaust | O/S H/D +1.85mm, SK6 Collets           |
| REC 740/1 |                               | 26.0mm/1.023"  | Exhaust | Undercut, O/S H/D +1.85mm, SK6 Collets |

|           |                                      |               |         |                                     |
|-----------|--------------------------------------|---------------|---------|-------------------------------------|
| REC 757   | K Series 1800cc VVC/VHPD, 18K4K Eng. | 31.5mm/1.240" | Inlet   | Std. H/D, SK6 Collets               |
| REC 767   |                                      | 32.5mm/1.280" | Inlet   | O/S H/D +1mm, SK6 Collets           |
| REC 768   |                                      | 33.5mm/1.319" | Inlet   | O/S H/D +2mm, SK6 Collets           |
| REC 846   |                                      | 34.5mm/1.358" | Inlet   | O/S H/D +3mm, SK6 Collets           |
| REC 758   | K Series 1800cc VVC/VHPD, 18K4K Eng. | 27.3mm/1.079" | Exhaust | Std. H/D, SK6 Collets               |
| REC 758/1 |                                      | 27.3mm/1.079" | Exhaust | Undercut, Std. H/D, SK6 Collets     |
| REC 783   |                                      | 28.5mm/1.122" | Exhaust | O/S H/D +1mm, SK6 Collets           |
| REC 783/1 |                                      | 28.5mm/1.122" | Exhaust | Undercut, O/S H/D +1mm, SK6 Collets |



| Part No. | Application              | Head Diameter | Type    | Comments |
|----------|--------------------------|---------------|---------|----------|
| REC 402  | Favorit 1300cc (Group A) | 1.339"/34.0mm | Inlet   | Std. H/D |
| REC 404  | Favorit 1300cc           | 1.496"/38.0mm | Inlet   | O/S H/D  |
| REC 403  | Favorit 1300cc (Group A) | 1.140"/29.0mm | Exhaust | Std. H/D |
| REC 405  | Favorit 1300cc           | 1.259"/32.0mm | Exhaust | O/S H/D  |

## Spiess

| Part No. | Application          | Head Diameter | Type    | Comments      |
|----------|----------------------|---------------|---------|---------------|
| REC 694  | VW Formula 3 1984-on | 1.622"/41.2mm | Inlet   | Single Groove |
| REC 695  | VW Formula 3 1984-on | 1.426"/36.2mm | Exhaust | Single Groove |

|         |              |               |         |                           |
|---------|--------------|---------------|---------|---------------------------|
| REC 725 | Formula 3000 | 1.299"/33.0mm | Inlet   | 16 Valve Engine, 6mm Stem |
| REC 726 | Formula 3000 | 1.140"/29.0mm | Exhaust | 16 Valve Engine, 6mm Stem |

## Suzuki

| Part No. | Application    | Head Diameter | Type  | Comments            |
|----------|----------------|---------------|-------|---------------------|
| REC 749  | Swift 1300 GTI | 1.140"/29.0mm | Inlet | Non Standard Length |

## Toyota

| Part No. | Application              | Head Diameter | Type    | Comments  |
|----------|--------------------------|---------------|---------|-----------|
| REC 298  | Corolla 1200cc 1969-1976 | 1.425"/36.2mm | Inlet   | 3K Engine |
| REC 299  | Corolla 1200cc 1969-1976 | 1.150"/29.2mm | Exhaust | 3K Engine |

|         |                        |               |         |           |
|---------|------------------------|---------------|---------|-----------|
| REC 298 | Corolla 1300cc 1978-on | 1.425"/36.2mm | Inlet   | 4K Engine |
| REC 299 | Corolla 1300cc 1978-on | 1.150"/29.2mm | Exhaust | 4K Engine |

|         |                                |               |         |           |
|---------|--------------------------------|---------------|---------|-----------|
| REC 298 | Carina, Corolla 1500cc 1983-on | 1.425"/36.2mm | Inlet   | 5K Engine |
| REC 299 | Carina, Corolla 1500cc 1983-on | 1.150"/29.2mm | Exhaust | 5K Engine |

|         |                    |               |         |                                            |
|---------|--------------------|---------------|---------|--------------------------------------------|
| REC 386 | Formula 3, 2 Litre | 1.781"/45.2mm | Inlet   | 2TG DOHC (8 Valve) Engine, Length 107.70mm |
| REC 423 |                    | 1.781"/45.2mm | Inlet   | 2TG DOHC (8 Valve) Engine, Length 108.70mm |
| REC 387 | Formula 3, 2 Litre | 1.515"/38.5mm | Exhaust | 2TG DOHC (8 Valve) Engine, Length 106.75mm |
| REC 424 |                    | 1.515"/38.5mm | Exhaust | 2TG DOHC (8 Valve) Engine, Length 107.80mm |



| Part No. | Application                        | Head Diameter | Type    | Comments                                                                      |
|----------|------------------------------------|---------------|---------|-------------------------------------------------------------------------------|
| REC 331  | TR2 1952-61, 1991cc                | 1.561"/39.7mm | Inlet   | Std. H/D, 5/16" Stem, Std. Collets                                            |
| REC 546  |                                    | 1.655"/42.0mm | Inlet   | O/S H/D +2.5mm, 9/32" Stem, <b>Kit, 88G459 Collets</b>                        |
| REC 330  | TR2 1952-61, 1991cc                | 1.306"/33.2mm | Exhaust | Std. H/D, (Stellite Seat), 5/16" Stem, U-Cut 1.640"                           |
| REC 535  |                                    | 1.305"/33.2mm | Exhaust | Std. H/D, 5/16" Stem, U-Cut 1.387", Std. Collets                              |
| REC 547  |                                    | 1.437"/36.5mm | Exhaust | O/S H/D +3.3mm, 9/32" Stem, <b>Kit, 88G459 Collets</b>                        |
| REC 331  | TR3 1952-61, 1991cc                | 1.561"/39.7mm | Inlet   | Std. H/D, 5/16" Stem, Std. Collets                                            |
| REC 546  |                                    | 1.655"/42.0mm | Inlet   | O/S H/D +2.5mm, 9/32" Stem, <b>Kit, 88G459 Collets</b>                        |
| REC 330  | TR3 1952-61, 1991cc                | 1.306"/33.2mm | Exhaust | Std. H/D, 5/16" Stem, (Stellite Seat), U-Cut 1.640"<br><b>CAN USE REC 535</b> |
| REC 535  |                                    | 1.305"/33.2mm | Exhaust | Std. H/D, 5/16" Stem, U-Cut 1.387"                                            |
| REC 547  |                                    | 1.437"/36.5mm | Exhaust | O/S H/D +3.3mm, 9/32" Stem, <b>Kit, 88G459 Collets</b>                        |
| REC 331  | TR4 1961-65, TR4A 1964-1967 2138cc | 1.561"/39.7mm | Inlet   | Std. H/D, 5/16" Stem, Std. Collets                                            |
| REC 546  |                                    | 1.655"/42.0mm | Inlet   | O/S H/D +2.5mm, 9/32" Stem, <b>Kit, 88G459 Collets</b>                        |
| REC 330  | TR4 1961-65, TR4A 1964-1967 2138cc | 1.306"/33.2mm | Exhaust | Std. H/D, 5/16" Stem, (Stellite Seat), U-Cut 1.640"<br><b>CAN USE REC 535</b> |
| REC 535  |                                    | 1.305"/33.2mm | Exhaust | Std. H/D, 5/16" Stem, U-Cut 1.387", Std. Collets                              |
| REC 547  |                                    | 1.437"/36.5mm | Exhaust | O/S H/D +3.3mm, 9/32" Stem, <b>Kit, 88G459 Collets</b>                        |
| REC 548  | TR6 1969-1976                      | 1.535"/39.0mm | Inlet   | O/S H/D +2.4mm, 9/32" Stem, <b>Kit, 88G459 Collets</b>                        |
| REC 549  | TR6 1969-1976                      | 1.299"/33.0mm | Exhaust | O/S H/D +1mm, 9/32" Stem, <b>Kit, 88G459 Collets</b>                          |
| REC 548  | GT6 1968-1973                      | 1.535"/39.0mm | Inlet   | O/S H/D +2.4mm, 9/32" Stem, <b>Kit, 88G459 Collets</b>                        |
| REC 549  | GT6 1968-1973                      | 1.299"/33.0mm | Exhaust | O/S H/D +1mm, 9/32" Stem, <b>Kit, 88G459 Collets</b>                          |
| REC 548  | 2000 Mk2 1969-1977                 | 1.535"/39.0mm | Inlet   | O/S H/D +2.4mm, 9/32" Stem, <b>Kit, 88G459 Collets</b>                        |
| REC 549  | 2000 Mk2 1969-1977                 | 1.299"/33.0mm | Exhaust | O/S H/D +1mm, 9/32" Stem, <b>Kit, 88G459 Collets</b>                          |
| REC 548  | 2500 S/TC 1968-1977                | 1.535"/39.0mm | Inlet   | O/S H/D +2.4mm, 9/32" Stem, <b>Kit, 88G459 Collets</b>                        |
| REC 549  | 2500 S/TC 1968-1977                | 1.299"/33.0mm | Exhaust | O/S H/D +1mm, 9/32" Stem, <b>Kit, 88G459 Collets</b>                          |
| REC 548  | Vitesse 2 Mk2 1969-on              | 1.535"/39.0mm | Inlet   | O/S H/D +2.4mm, 9/32" Stem, <b>Kit, 88G459 Collets</b>                        |
| REC 549  | Vitesse 2 Mk2 1969-on              | 1.299"/33.0mm | Exhaust | O/S H/D +1mm, 9/32" Stem, <b>Kit, 88G459 Collets</b>                          |
| REC 891  | Dolomite Sprint, 2 Litre, 1973-on  | 1.400"/35.6mm | Inlet   | O/S H/D +0.5mm, 4 valve engine                                                |
| REC 893  |                                    | 1.420"/36.1mm | Inlet   | O/S H/D +1.0mm, 4 valve engine                                                |
| REC 892  | Dolomite Sprint, 2 Litre, 1973-on  | 1.225"/31.1mm | Exhaust | O/S H/D +0.4mm, 4 valve engine                                                |



| Part No. | Application                                                            | Head Diameter | Type    | Comments                           |
|----------|------------------------------------------------------------------------|---------------|---------|------------------------------------|
| REC 460  | 350, 390, 400, 420, 450, Griffith Chimaera (Rover 3500cc V8) 1983-2001 | 1.692"/43.0mm | Inlet   | Std. Inlet, Std. Stem, Std. Groove |
| REC 461  | 350, 390, 400, 420, 450, Griffith Chimaera (Rover 3500cc V8) 1983-2001 | 1.455"/37.0mm | Exhaust | Std. Inlet, Std. Stem, Std. Groove |

|         |                                                                        |               |         |                                                                                                  |
|---------|------------------------------------------------------------------------|---------------|---------|--------------------------------------------------------------------------------------------------|
| REC 508 | 350, 390, 400, 420, 450, Griffith Chimaera (Rover 3500cc V8) 1983-2001 | 1.750"/44.4mm | Inlet   | O/S H/D +1.5mm, 5/16" stem, Triple Groove<br><b>MK8 Collets, REC 004 Springs, 10424 Retainer</b> |
| REC 509 | 350, 390, 400, 420, 450, Griffith Chimaera (Rover 3500cc V8) 1983-2001 | 1.470"/37.3mm | Exhaust | O/S H/D +1.5mm, 5/16" stem, Triple Groove<br><b>MK8 Collets, REC 004 Springs, 10424 Retainer</b> |

## Vauxhall - (Retainers, Collets and Guides Available) (PTO)

| Part No. | Application             | Head Diameter | Type    | Comments |
|----------|-------------------------|---------------|---------|----------|
| REC 300  | Chevette 1256cc Brabham | 1.437"/36.5mm | Inlet   |          |
| REC 301  | Chevette 1256cc Brabham | 1.220"/31.0mm | Exhaust |          |

|         |                                 |               |         |            |
|---------|---------------------------------|---------------|---------|------------|
| REC 317 | Chevette H.S.S 4 Valve Twin Cam | 1.420"/36.0mm | Inlet   | Std. Stem  |
| REC 462 |                                 | 1.477"/37.5mm | Inlet   | 9/32" Stem |
| REC 318 | Chevette H.S.S 4 Valve Twin Cam | 1.200"/30.5mm | Exhaust | Std. Stem  |
| REC 463 |                                 | 1.260"/32.0mm | Exhaust | 9/32" Stem |

|         |                           |               |         |  |
|---------|---------------------------|---------------|---------|--|
| REC 283 | Droop Snoot 2.3 Litre OHC | 1.850"/47.0mm | Inlet   |  |
| REC 284 | Droop Snoot 2.3 Litre OHC | 1.600"/40.6mm | Exhaust |  |

## Astra / Nova / Corsa 1300cc (13N, 13NB, 13S & C13N Engine)

|         |                              |               |         |                                                  |
|---------|------------------------------|---------------|---------|--------------------------------------------------|
| REC 302 | Mk1 & Mk2 1979-1991, Group A | 33.0mm/1.298" | Inlet   | 7.01mm Stem, Single Groove, KK7 Collets          |
| REC 304 |                              | 35.0mm/1.378" | Inlet   | O/S H/D, 7.01mm Stem, Single Groove, KK7 Collets |
| REC 303 | Mk1 & Mk2 1979-1991, Group A | 29.0mm/1.141" | Exhaust | 6.99mm Stem, Single Groove, KK7 Collets          |
| REC 305 |                              | 31.1mm/1.224" | Exhaust | O/S H/D, 6.99mm Stem, Single Groove, KK7 Collets |

## Astra / Nova / Corsa 1400cc (2 Valve, C1.4SE Engine)

|         |                               |               |         |                                             |
|---------|-------------------------------|---------------|---------|---------------------------------------------|
| REC 553 | Mk3 & Mk4 1991-2001 (8 Valve) | 39.0mm/1.535" | Inlet   | KK7 Collets, O/S H/D +1.00mm, +0.4mm Length |
| REC 648 | Mk3 & Mk4 1991-2001 (8 Valve) | 32.0mm/1.259" | Exhaust | KK7 Collets, O/S H/D +1.00mm, +0.4mm Length |

## Astra / Nova / Corsa 1400cc / 1600cc (4 Valve, X14XE/X16XE/X16XEL Engine)

|         |                                |               |         |                                   |
|---------|--------------------------------|---------------|---------|-----------------------------------|
| REC 661 | Mk3 & Mk4 1996-2001 (16 Valve) | 31.0mm/1.219" | Inlet   | Std. H/D, Group A (16 Valve)      |
| REC 663 |                                | 32.0mm/1.260" | Inlet   | O/S H/D +1mm, Undercut (16 Valve) |
| REC 662 | Mk3 & Mk4 1996-2001 (16 Valve) | 27.4mm/1.080" | Exhaust | Std. H/D, Group A (16 Valve)      |
| REC 664 |                                | 28.4mm/1.120" | Exhaust | O/S H/D +1mm (16 Valve)           |

## Astra 1600cc GTE / Nova / Belmont / Cavalier (2 Valve, 16SV, C1.6NZ, C1.6SE Engine)

|         |                                      |               |         |                                                  |
|---------|--------------------------------------|---------------|---------|--------------------------------------------------|
| REC 439 | Mk1,2 & 3 1984-95, Group A (8 Valve) | 38.0mm/1.498" | Inlet   | 7.01mm Stem, Single Groove, KK7 Collets          |
| REC 444 |                                      | 39.0mm/1.535" | Inlet   | O/S H/D, 7.01mm Stem, Single Groove, KK7 Collets |
| REC 440 | Mk1,2 & 3 1984-95, Group A (8 Valve) | 30.8mm/1.215" | Exhaust | 7.00mm Stem, Single Groove, KK7 Collets          |
| REC 445 |                                      | 31.8mm/1.254" | Exhaust | O/S H/D, 7.00mm Stem, Single Groove, KK7 Collets |

## Astra 1800cc, Cavalier 1800cc (2 Valve, 18E, C18E, C18NE & C18NT Engine)

|         |                              |               |         |                                                  |
|---------|------------------------------|---------------|---------|--------------------------------------------------|
| REC 343 | Mk1 & Mk2, Group A (8 Valve) | 41.0mm/1.614" | Inlet   | 8.00mm Stem, Single Groove, KK8 Collets          |
| REC 384 |                              | 42.0mm/1.654" | Inlet   | O/S H/D, 8.00mm Stem, Single Groove, KK8 Collets |
| REC 464 |                              | 44.5mm/1.750" | Inlet   | O/S H/D, 8.00mm Stem, Single Groove, KK8 Collets |
| REC 344 | Mk1 & Mk2, Group A (8 Valve) | 35.0mm/1.378" | Exhaust | O/S H/D, 8.00mm Stem, Single Groove, KK8 Collets |
| REC 385 |                              | 36.0mm/1.418" | Exhaust | 8.00mm Stem, Single Groove, KK8 Collets          |



## Vauxhall - (Retainers, Collets and Guides Available) - Continued

| Part No. | Application | Head Diameter | Type | Comments |
|----------|-------------|---------------|------|----------|
|----------|-------------|---------------|------|----------|

### Cavalier 2000cc / Carlton 2000cc (2 Valve, 20N & 20S Engine), *for oversize see Opel*

|         |                                        |               |         |                                      |
|---------|----------------------------------------|---------------|---------|--------------------------------------|
| REC 288 | Cavalier Mk1 1979-81 / Carlton 1982-86 | 42.0mm/1.653" | Inlet   | 9mm Stem, Single Groove, KK9 Collets |
| REC 289 | Cavalier Mk1 1979-81 / Carlton 1982-86 | 37.0mm/1.456" | Exhaust | 9mm Stem, Single Groove, KK9 Collets |

### Astra 2000cc GTE / Cavalier (2 Valve, 20NE, 20SEH, 20SER, C20NE, 20SE & C20SE Engine)

|         |                             |               |         |                                            |
|---------|-----------------------------|---------------|---------|--------------------------------------------|
| REC 441 | Mk2 & Mk3 1986-92 (8 Valve) | 43.0mm/1.692" | Inlet   | O/S H/D +1.2mm, Single Groove, KK7 Collets |
| REC 688 | Mk2 & Mk3 1986-92 (8 Valve) | 37.0mm/1.456" | Exhaust | O/S H/D +0.5mm, Single Groove, KK7 Collets |

### Astra / Cavalier 2000 Litre (4 Valve, 20XE, C20XE, C20LE & C20LET Engine) - 'Red Top' Engine

|          |                                 |               |         |                                               |
|----------|---------------------------------|---------------|---------|-----------------------------------------------|
| REC 458  | Mk3 1989-95, Group A (16 Valve) | 33.0mm/1.300" | Inlet   | Std. Stem, MK7 Collets                        |
| REC 777  |                                 | 33.0mm/1.300" | Inlet   | 6mm Stem, <b>Kit, SK6 Collets</b>             |
| REC 442  |                                 | 34.0mm/1.340" | Inlet   | O/S H/D +1mm, Std. Stem, MK7 Collets          |
| REC 779  |                                 | 34.0mm/1.340" | Inlet   | 6mm Stem, <b>Kit, SK6 Collets</b>             |
| REC 589  |                                 | 35.0mm/1.377" | Inlet   | O/S H/D +2mm, Std. Stem, MK7 Collets          |
| REC 781  |                                 | 35.0mm/1.377" | Inlet   | 6mm Stem, <b>Kit, SK6 Collets</b>             |
| REC 798  |                                 | 36.0mm/1.417" | Inlet   | 6mm Stem, <b>Kit, SK6 Collets</b>             |
| REC 459  | Mk3 1989-95, Group A (16 Valve) | 29.0mm/1.142" | Exhaust | Std. Stem, MK7 Collets                        |
| REC 459S | (Std.) Turbo                    | 29.0mm/1.142" | Exhaust | Turbo, Stellite Seat, Std. Stem, MK7 Collets  |
| REC 778  | Mk3 1989-95, Group A (16 Valve) | 29.0mm/1.142" | Exhaust | 6mm Stem, <b>Kit, SK6 Collets</b>             |
| REC 443  |                                 | 30.0mm/1.180" | Exhaust | O/S H/D +1mm, Std. Stem, MK7 Collets          |
| REC 443S | (Std.) Turbo                    | 30.0mm/1.180" | Exhaust | Turbo, O/S H/D +1mm, Stellite Seat, Std. Stem |
| REC 443N | (High Power) Turbo              | 30.0mm/1.180" | Exhaust | Turbo, O/S H/D +1mm, Nimonic 80A, Std. Stem   |
| REC 780  | Mk3 1989-95, Group A (16 Valve) | 30.0mm/1.180" | Exhaust | 6mm Stem, <b>Kit, SK6 Collets</b>             |
| REC 590  |                                 | 31.0mm/1.219" | Exhaust | O/S H/D +2mm, Std. Stem, MK7 Collets          |
| REC 590S |                                 | 31.0mm/1.219" | Exhaust | O/S H/D +2mm, Turbo, Stellite Seat, Std. Stem |
| REC 782  |                                 | 31.0mm/1.219" | Exhaust | 6mm Stem, <b>Kit, SK6 Collets</b>             |

### Senator 3000cc CDi (2 Valve, C30NE Engine), *for oversize see Opel*

|         |                                  |               |         |                                               |
|---------|----------------------------------|---------------|---------|-----------------------------------------------|
| REC 359 | Senator 3L Cdi (2 valve) 1987-on | 46.0mm/1.811" | Inlet   | O/S H/D, 9mm Stem, Single Groove, KK9 Collets |
| REC 291 | Senator 3L Cdi (2 valve) 1987-on | 41.0mm/1.614  | Exhaust | O/S H/D, 9mm Stem, Single Groove, KK9 Collets |

### Astra 16V/Vectra 24V/Omega 24V/Calibra 24V/Cavalier/Frontera/Signum V6/VX220

(C1.8XE, X20XER, X20XEV, C25XE, X25XE, Z20LEH, Z20LEL, Z20LER, Z20LET, X22SE, X22XE, Y22SE, Y22XE, Z22XE, X30XE, Y32SE & Z32SE Engine)

|           |                                  |               |         |                                               |
|-----------|----------------------------------|---------------|---------|-----------------------------------------------|
| REC 815   | EcoTec Engine                    | 33.0mm/1.299" | Inlet   | O/S H/D +1mm                                  |
| REC 816   | EcoTec Engine                    | 30.2mm/1.189" | Exhaust | O/S H/D +1mm                                  |
| REC 816SS | EcoTec (Std.) Turbo Engine       | 30.2mm/1.189" | Exhaust | Turbo, O/S H/D +1mm, Stellite Seat, Std. Stem |
| REC 816N  | EcoTec (High Power) Turbo Engine | 30.2mm/1.189" | Exhaust | Turbo, O/S H/D +1mm, Nimonic 80A              |

### Touring Car

|         |                                      |               |         |                        |
|---------|--------------------------------------|---------------|---------|------------------------|
| REC 826 | 2000 Litre 16 Valve (Swindon Engine) | 35.0mm/1.378" | Inlet   | 5mm Stems, LK5 Collets |
| REC 827 | 2000 Litre 16 Valve (Swindon Engine) | 30.0mm/1.181" | Exhaust | 5mm Stems, LK5 Collets |



## VW

| Part No. | Application                                              | Head Diameter | Type    | Comments                                                                     |
|----------|----------------------------------------------------------|---------------|---------|------------------------------------------------------------------------------|
| REC 310  | Judd F3, 2 Litre                                         | 40.2mm/1.583" | Inlet   | 8 Valve Engine, Std. Ford Cross-Flow Triple Collets                          |
| REC 311  | Judd F3, 2 Litre                                         | 35.0mm/1.375" | Exhaust | 8 Valve Engine, Std. Ford Cross-Flow Triple Collets                          |
| REC 517  | Beetle, Karmann Ghia<br>1300L, 1302, 1303L 1972-On       | 42.0mm/1.652" | Inlet   | O/S H/D +6.5mm, Seat to groove -0.5mm, Mk8 (1285cc, AD Engine)               |
| REC 517  | Variant 1500A, N & S 1963-1975                           | 42.0mm/1.652" | Inlet   | O/S H/D +6.5mm, Seat to groove -0.5mm, Mk8 (1493cc, AD Engine)               |
| REC 517  | Variant 1600A, L, N, TL, Transporter 1963-1975           | 42.0mm/1.652" | Inlet   | O/S H/D +6.5mm, Seat to groove -0.5mm, Mk8 (1493cc, AD Engine)               |
| REC 517  | Variant 1600A, L, N, TL, Transporter 1963-1975           | 42.0mm/1.652" | Inlet   | O/S H/D +6.5mm, Seat to groove -0.5mm, Mk8 (1493cc, AD Engine)               |
| REC 517  | Transporter, Kombi Bus 1974-on                           | 42.0mm/1.652" | Inlet   | O/S H/D +6.5mm, Seat to groove -0.5mm, Mk8 (15845cc, AD Engine)              |
| REC 500  | Golf Mk1 GTI, Jetta, Scirocco 1975-1982                  | 40.0mm/1.575" | Inlet   | Single Groove, O/S H/D +2mm, Length -1mm (1588cc EG Engine), RK8 Collets     |
| REC 501  | Golf Mk1 GTI, Jetta, Scirocco 1975-1982                  | 35.0mm/1.378" | Exhaust | Single Groove, O/S H/D +3.8mm, Length -1mm (1588cc, EG Engine), RK8 Collets  |
| REC 711  | Golf Mk2 GTI 1983 - 1985 (8 Valve)                       | 42.0mm/1.654" | Inlet   | (1781cc DX Engine), O/S H/D +2mm, MK8 Collets                                |
| REC 712  | Golf Mk2 GTI 1983 - 1985 (8 Valve)                       | 35.0mm/1.382" | Exhaust | (1781cc DX Engine), O/S H/D +2mm, MK8 Collets                                |
| REC 775  | Golf Mk2 GTI 1986 - 1991 (8 Valve)                       | 40.0mm/1.575" | Inlet   | (1781cc, DX Engine), Hydraulic, Std. H/D, MK8                                |
| REC 805  |                                                          | 42.0mm/1.653" | Inlet   | (DX Engine), Hydraulic, O/S H/D +2mm, MK8                                    |
| REC 776  |                                                          | 33.1mm/1.304" | Exhaust | (1781cc, DX Engine), Hydraulic, Std. H/D, MK8                                |
| REC 806  |                                                          | 35.0mm/1.377" | Exhaust | (DX Engine), Hydraulic, O/S H/D +2mm, MK8                                    |
| REC 502  | Golf MK2 GTI, Jetta, Passat, Scirocco (16 Valve) 1985-on | 32.0mm/1.260" | Inlet   | (1781cc PL, KR Engine), Single Groove <b>Hydraulic Tappets</b> , RK7 Collets |
| REC 503  | Golf MK2 GTI, Jetta, Passat, Scirocco (16 Valve) 1985-on | 28.0mm/1.104" | Exhaust | (1781cc PL, KR Engine), Single Groove <b>Hydraulic Tappets</b> , RK7 Collets |
| REC 536  | Golf MK2 GTI, Jetta, Passat, Scirocco (16 Valve) 1985-on | 32.0mm/1.260" | Inlet   | (1781cc PL, KR Engine), Single Groove <b>Solid Tappet</b> , RK7 Collets      |
| REC 537  | Golf MK2 GTI, Jetta, Passat, Scirocco (16 Valve) 1985-on | 28.0mm/1.102" | Exhaust | (1781cc PL, KR Engine), Single Groove <b>Solid Tappet</b> , RK7 Collets      |

## Volvo

| Part No. | Application       | Head Diameter | Type    | Comments                                                       |
|----------|-------------------|---------------|---------|----------------------------------------------------------------|
| REC 538  |                   | 1.811"/46.0mm | Inlet   |                                                                |
| REC 540  |                   | 1.890"/48.0mm | Inlet   |                                                                |
| REC 539  |                   | 1.929"/49.0mm | Inlet   |                                                                |
| REC 541  |                   | 1.574"/40.0mm | Exhaust |                                                                |
| REC 673  |                   | 1.614"/41.0mm | Exhaust |                                                                |
| REC 412  |                   | 1.890"/48.0mm | Inlet   | Single Groove<br><b>10823 (X026E0045Z) Lotus T/Cam Collets</b> |
| REC 413  |                   | 1.968"/50.0mm | Inlet   | Single Groove<br><b>10823 (X026E0045Z) Lotus T/Cam Collets</b> |
| REC 414  |                   | 1.574"/40.0mm | Exhaust | Single Groove<br><b>10823 (X026E0045Z) Lotus T/Cam Collets</b> |
| REC 492  | B230 (West Coast) | 1.811"/46.0mm | Inlet   |                                                                |
| REC 493  | B230 (West Coast) | 1.496"/38.0mm | Exhaust |                                                                |
| REC 521  | WCE               | 1.850"/47.0mm | Inlet   |                                                                |
| REC 519  |                   | 1.890"/48.0mm | Inlet   |                                                                |
| REC 520  |                   | 1.574"/40.0mm | Exhaust |                                                                |
| REC 522  |                   | 1.614"/41.0mm | Exhaust |                                                                |



## Volvo - Continued

| Part No. | Application | Head Diameter | Type    | Comments                    |
|----------|-------------|---------------|---------|-----------------------------|
| REC 466  |             | 1.890"/48.0mm | Inlet   |                             |
| REC 465  |             | 1.968"/50.0mm | Inlet   |                             |
| REC 467  |             | 1.614"/41.0mm | Exhaust |                             |
| REC 308  | B20         | 1.811"/46.0mm | Inlet   | Triple Groove (MK8 Collets) |
| REC 309  | B20         | 1.496"/38.0mm | Exhaust | Triple Groove (MK8 Collets) |
| REC 665  | B23         | 1.898"/48.2mm | Inlet   | Triple Groove (MK8 Collets) |
| REC 666  | B23         | 1.572"/40.0mm | Exhaust | Triple Groove (MK8 Collets) |

Please note this is only a small percentage of our stock valves that we currently hold at Race Engine Components Ltd. Part numbers listed with REC, we have drawings and have made, but do not stock. Valves O/E Titanium are replacements made from 1.4882 Austenitic Stainless Steel. For any other valves not listed, please do not hesitate to call:

Race Engine Components:

Phone: +44 (0) 1902 373770, Fax: +44 (0) 1902 373772 or Email: [recvalves@gmail.com](mailto:recvalves@gmail.com)

or

G&S Valves Ltd.:

Phone +44 (0) 1483 415444, Fax +44 (0) 1483 426891 or Email: [GSValves@aol.com](mailto:GSValves@aol.com)



| Part No. | Application | Head Diameter | Type    | Comments | Weight |
|----------|-------------|---------------|---------|----------|--------|
| REC 489  |             | 34.0mm        | Exhaust |          |        |
| REC 377  | 250cc       | 31.0mm        | Exhaust |          |        |

|         |       |        |         |  |  |
|---------|-------|--------|---------|--|--|
| REC 374 | 350cc | 39.0mm | Inlet   |  |  |
| REC 375 | 350cc | 33.0mm | Exhaust |  |  |

## Ducati (PTO)

| Part No. | Application  | Head Diameter | Type    | Comments | Weight |
|----------|--------------|---------------|---------|----------|--------|
| REC 360  | Ducati 125cc | 32.0mm        | Inlet   |          |        |
| REC 361  | Ducati 125cc | 27.6mm        | Exhaust |          |        |

|         |              |        |         |  |  |
|---------|--------------|--------|---------|--|--|
| REC 362 | Ducati 200cc | 36.8mm | Inlet   |  |  |
| REC 363 | Ducati 200cc | 32.5mm | Exhaust |  |  |

|         |                      |        |         |  |  |
|---------|----------------------|--------|---------|--|--|
| REC 338 | Ducati 250cc / 350cc | 40.9mm | Inlet   |  |  |
| REC 339 | Ducati 250cc / 350cc | 34.9mm | Exhaust |  |  |

|           |        |        |         |           |      |
|-----------|--------|--------|---------|-----------|------|
| REC 702/1 | Ducati | 38.0mm | Inlet   | Flat Back | 62.1 |
| REC 703/1 | Ducati | 32.0mm | Exhaust | Flat Back | 56.3 |

|           |                                      |                 |         |                             |      |
|-----------|--------------------------------------|-----------------|---------|-----------------------------|------|
| REC 595/1 | Ducati Super Mono (Single) 1993-1995 | 36.0mm Std. H/D | Inlet   | Flat Back, (4 Valve Engine) | 58.4 |
| REC 593/1 |                                      | 37.0mm          | Inlet   | Flat Back, (4 Valve Engine) | 60.1 |
| REC 594/1 | Ducati Super Mono (Single) 1993-1995 | 31.0mm Std. H/D | Exhaust | Flat Back, (4 Valve Engine) | 54.3 |

|         |                                   |                 |         |                             |  |
|---------|-----------------------------------|-----------------|---------|-----------------------------|--|
| REC 714 | Ducati 748BP (V-Twin) 1994 - 1999 | 32.0mm          | Inlet   | Flat Back, (4 Valve Engine) |  |
| REC 729 |                                   | 33.0mm Std. H/D | Inlet   | Flat Back, (4 Valve Engine) |  |
| REC 715 | Ducati 748BP (V-Twin) 1994 - 1999 | 29.0mm Std. H/D | Exhaust | Flat Back, (4 Valve Engine) |  |

|           |                                        |                 |         |                             |      |
|-----------|----------------------------------------|-----------------|---------|-----------------------------|------|
| REC 608/1 | Ducati 748RS, 888 (V-Twin) 1991 - 1994 | 34.0mm Std. H/D | Inlet   | Flat Back, (4 Valve Engine) | 55.1 |
| REC 606/1 |                                        | 36.0mm          | Inlet   | Flat Back, (4 Valve Engine) | 58.6 |
| REC 737   |                                        | 39.0mm          | Inlet   | Flat Back, (4 Valve Engine) | 64.1 |
| REC 609/1 | Ducati 748RS, 888 (V-Twin) 1991 - 1994 | 30.0mm Std. H/D | Exhaust | Flat Back, (4 Valve Engine) | 54.0 |
| REC 607/1 |                                        | 31.0mm          | Exhaust | Flat Back, (4 Valve Engine) | 54.3 |
| REC 738   |                                        | 32.0mm          | Exhaust | Flat Back, (4 Valve Engine) | 58.1 |

|         |                                 |        |       |                             |      |
|---------|---------------------------------|--------|-------|-----------------------------|------|
| REC 738 | Ducati 851 (V-Twin) 1987 - 1992 | 32.0mm | Inlet | Flat Back, (4 Valve Engine) | 58.1 |
|---------|---------------------------------|--------|-------|-----------------------------|------|

|           |                                 |                 |         |                             |      |
|-----------|---------------------------------|-----------------|---------|-----------------------------|------|
| REC 593/1 | Ducati 916 (V-Twin) 1994 - 1998 | 37.0mm Std. H/D | Inlet   | Flat Back, (4 Valve Engine) | 60.1 |
| REC 594/1 | Ducati 916 (V-Twin) 1994 - 1998 | 31.0mm Std. H/D | Exhaust | Flat Back, (4 Valve Engine) | 54.3 |

|         |        |                 |         |           |      |
|---------|--------|-----------------|---------|-----------|------|
| REC 873 | Ducati | 40.0mm Std. H/D | Inlet   | Flat Back | 63.7 |
| REC 874 | Ducati | 33.0mm Std. H/D | Exhaust | Flat Back | 54.3 |

|     |            |        |         |                    |  |
|-----|------------|--------|---------|--------------------|--|
| REC | Ducati 996 | 39.0mm | Inlet   | O/E Titanium 39.7g |  |
| REC | Ducati 996 | 32.0mm | Exhaust |                    |  |

|         |                       |                 |         |           |  |
|---------|-----------------------|-----------------|---------|-----------|--|
| REC 873 | Ducati 996R 2001 - On | 40.0mm Std. H/D | Inlet   | Flat Back |  |
| REC 874 | Ducati 996R 2001 - On | 33.0mm Std. H/D | Exhaust | Flat Back |  |



## Ducati - Continued

| Part No. | Application                              | Head Diameter   | Type    | Comments           | Weight |
|----------|------------------------------------------|-----------------|---------|--------------------|--------|
| REC 873  | Ducati 998, 998R, 998S, 998 Testastretta | 40.0mm Std. H/D | Inlet   | Flat Back          |        |
| REC 874  | Ducati 998, 998R, 998S, 998 Testastretta | 33.0mm Std. H/D | Exhaust | Flat Back          |        |
| REC 873  | Ducati 999, 999S 2003 - On               | 40.0mm Std. H/D | Inlet   | Flat Back          |        |
| REC 874  | Ducati 999, 999S 2003 - On               | 33.0mm Std. H/D | Exhaust | Flat Back          |        |
| REC 873  | Ducati Monster S4RS                      | 40.0mm Std. H/D | Inlet   | Flat Back          |        |
| REC 874  | Ducati Monster S4RS                      | 33.0mm Std. H/D | Exhaust | Flat Back          |        |
| REC      | Ducati RS02 998cc                        | 42.0mm          | Inlet   | O/E Titanium 39.8g |        |
| REC      | Ducati RS02 998cc                        | 34.0mm          | Exhaust | O/E Titanium 31.9g |        |
| REC      | Ducati F02-F04 999cc                     | 43.5mm          | Inlet   | O/E Titanium 41.1g |        |
| REC      | Ducati F02-F04 999cc                     | 35.5mm          | Exhaust | O/E Titanium 33.6g |        |

## Goddon

| Part No. | Application          | Head Diameter | Type    | Comments | Weight |
|----------|----------------------|---------------|---------|----------|--------|
| REC 327  |                      | 35.0mm        | Inlet   |          |        |
| REC 328  |                      | 28.6mm        | Exhaust |          |        |
| REC 421  | Speedway (GM Engine) | 33.3mm        | Inlet   |          |        |
| REC 422  | Speedway (GM Engine) | 28.8mm        | Exhaust |          |        |

## Honda (Retainers Available) (PTO)

| Part No.  | Application                                                                  | Head Diameter  | Type    | Comments                           | Weight |
|-----------|------------------------------------------------------------------------------|----------------|---------|------------------------------------|--------|
| REC 733   | Honda XRV750 "Africa" (Twin) 1990-03                                         | 27.0mm         | Inlet   | O/S H/D +1mm                       |        |
| REC 406/1 | Honda CB72, 250cc                                                            | 31.8mm         | Inlet   | Std. H/D, Dish                     | 43.3   |
| REC 407/1 | Honda CB72, 250cc                                                            | 26.4mm         | Exhaust | Std. H/D, Dish                     | 37.8   |
| REC 406   | Honda CB77, 305cc                                                            | 33.2mm         | Inlet   | Dished                             | 44.7   |
| REC 407   | Honda CB77, 305cc                                                            | 28.0mm         | Exhaust | Dished                             | 39.6   |
| REC 340   | Honda CB350 K0 to K4 350cc 1968 - 73                                         | 35.0mm         | Inlet   | Dished, Round Groove, O/S H/D +1mm | 48.8   |
| REC 689   |                                                                              | 35.0mm         | Inlet   | 5.5mm Stem's, O/S H/D +1mm         |        |
| REC 579   |                                                                              | 36.0mm         | Inlet   | Dished, Round Groove, O/S H/D +2mm |        |
| REC 341   | Honda CB350 K0 to K4 350cc 1968 - 73                                         | 28.0mm         | Exhaust | Dished, Round Groove, Std. H/D     | 42.4   |
| REC 690   |                                                                              | 28.0mm         | Exhaust | 5.5mm Stem's, Std. H/D             |        |
| REC 580   |                                                                              | 29.0mm         | Exhaust | Dished, Round Groove, O/S H/D +1mm |        |
| 38551     | Honda CB450, (Torsion Bar Springs)                                           | 38.0mm         | Inlet   | 1.50mm Seat, Dished, Square Groove | 61.0   |
| 38552     | Honda CB450, (Torsion Bar Springs)                                           | 33.0mm         | Exhaust | 2.15mm Seat, Dished, Square Groove | 54.5   |
| REC 952   | Honda CB500 (4 Cyl) 1972                                                     | 28.5mm O/S H/D | Inlet   | Dished, 1.5mm Seat                 | 32.4   |
| REC 953   | Honda CB500 (4 Cyl.) 1972                                                    | 24.0mm O/S H/D | Exhaust | Dished, 1.75mm Seat                | 28.7   |
| REC 954   | Honda CB750 1980-83<br>Honda CB1000 1980-82 (4 Cyl.)<br>Honda CB1100 1983-on | 28.5mm O/S H/D | Inlet   | Dished, 1.5mm Seat, O/S H/D +1mm   | 32.4   |
| REC 955   | Honda CB750 1980-83<br>Honda CB1000 1980-82 (4 Cyl.)<br>Honda CB1100 1983-on | 24.0mm O/S H/D | Exhaust | Dished, 1.75mm Seat, O/S H/D +1mm  | 28.7   |



## Honda (Retainers Available) (PTO) - Continued

| Part No.  | Application                          | Head Diameter   | Type    | Comments                                                                  | Weight |
|-----------|--------------------------------------|-----------------|---------|---------------------------------------------------------------------------|--------|
| REC       | Honda CB1100R                        | 26.0mm          | Inlet   |                                                                           |        |
| REC 735/1 | Honda CBR600F3 1995 - 1998           | 25.5mm Std. H/D | Inlet   | Dished, Std. Head Shape Std. Length                                       | 18.4   |
| REC 735   |                                      | 25.5mm Std. H/D | Inlet   | Dished, Std. Length                                                       | 18.2   |
| REC 603   |                                      | 25.5mm Std. H/D | Inlet   | Flat Back, Std. Length                                                    | 19.0   |
| REC 603/1 |                                      | 25.5mm Std. H/D | Inlet   | Flat back, Seat to Groove +0.381mm Length +0.381mm, 1.8mm Seat            | 19.2   |
| REC 603/2 |                                      | 25.5mm Std. H/D | Inlet   | Flat Back, Seat to Groove +0.381mm Length +0.381mm, 1.0mm Seat, Flat Back | 18.5   |
| REC 736/1 | Honda CBR600F3 1995 - 1998           | 22.0mm Std. H/D | Exhaust | Dished, Std. Head Shape, Std. Length                                      | 16.0   |
| REC 736   |                                      | 22.0mm Std. H/D | Exhaust | Dished, Std. Length                                                       | 15.7   |
| REC 604   |                                      | 22.0mm Std. H/D | Exhaust | Flat Back, Std. Length                                                    | 16.0   |
| REC 604/1 |                                      | 22.0mm Std. H/D | Exhaust | Seat to Groove + 0.381mm Length +0.381mm, Flat Back                       | 16.4   |
| REC 759   | Honda CBR600F4/FX/FY 1998 - 2000     | 26.5mm Std. H/D | Inlet   | 1mm Seat, Std. Length, Dish, Std. Collets                                 | 20.0   |
| REC 759/1 |                                      | 26.5mm Std. H/D | Inlet   | 1mm Seat, Std. Length, Dish, <b>Kit, SK4</b>                              | 20.0   |
| REC 760   | Honda CBR600F4/FX/FY 1998 - 2000     | 23.0mm Std. H/D | Exhaust | 1.5mm Seat, Dish, Std. Collets                                            | 16.3   |
| REC 760/1 |                                      | 23.0mm Std. H/D | Exhaust | 1.5mm Seat, Dish, <b>Kit, SK4 Collets</b>                                 | 16.3   |
| REC 813   | Honda CBR600RR3, RR5 2003 - 2006     | 27.4mm Std. H/D | Inlet   | 1.25mm Seat, Flat Back, Blue Spring                                       | 22.3   |
| REC 814   | Honda CBR600RR3, RR5 2003 - 2006     | 23.0mm Std. H/D | Exhaust | 2.0mm Seat, Flat Back, Orange Spring                                      | 18.0   |
| REC 813   | Honda CBR600RR7, RR12 2007 - 2012    | 27.4mm Std. H/D | Inlet   | Flat Back                                                                 | 22.3   |
| REC 814   | Honda CBR600RR7, RR12 2007 - 2012    | 23.0mm          | Exhaust | O/S H/D +0.5mm, Flat Back                                                 | 18.0   |
| REC 682   | Honda CBR900RR Fireblade 1992 - 1997 | 27.5mm Std. H/D | Inlet   | Flat Back, Carburetor Engine                                              | 24.4   |
| REC 680   |                                      | 28.5mm          | Inlet   | Flat Back, Carburetor Engine                                              | 25.7   |
| REC 683   | Honda CBR900RR Fireblade 1992 - 1997 | 23.0mm Std. H/D | Exhaust | Flat Back, Carburetor Engine                                              | 20.6   |
| REC 681   |                                      | 24.0mm          | Exhaust | Flat Back, Carburetor Engine                                              | 21.6   |
| REC 853   | Honda CBR1000RR Fireblade 2004 - On  | 29.0mm Std. H/D | Inlet   | Seat 1.0mm, Flat back                                                     | 26.4   |
| REC 854   | Honda CBR1000RR Fireblade 2004 - On  | 24.0mm Std. H/D | Exhaust | Seat 1.5mm, Flat Back                                                     | 20.0   |
| REC 769   | Honda CBR1100XX Blackbird 1997 - 99  | 32.0mm Std. H/D | Inlet   | Pre-Injection, Flat Back<br>Seat to Groove -0.254mm, Std. Length          | 32.1   |
| REC 771   |                                      | 33.0mm          | Inlet   | Pre-Injection, Flat Back<br>Seat to Groove -0.254mm, Std. Length          | 33.7   |
| REC 770   | Honda CBR1100XX Blackbird 1997 - 99  | 27.0mm Std. H/D | Exhaust | Pre-Injection, Flat Back<br>Seat to Groove -0.254mm, Std. Length          | 27.3   |
| REC 772   |                                      | 28.0mm          | Exhaust | Pre-Injection, Flat Back<br>Seat to Groove -0.254mm, Std. Length          | 28.4   |
| REC       | Honda CBX1000 (6 Cyl.)               | 22.0mm Std. H/D | Exhaust |                                                                           |        |



## Honda (Retainers Available) (PTO) - Continued

| Part No.  | Application                               | Head Diameter    | Type    | Comments                                                                          | Weight |
|-----------|-------------------------------------------|------------------|---------|-----------------------------------------------------------------------------------|--------|
| REC       | Honda CRF150F 2005 - On                   | 26.0mm Std. H/D  | Inlet   |                                                                                   |        |
| REC       | Honda CRF150F 2005 - On                   | 22.5mm Std. H/D  | Exhaust |                                                                                   |        |
| REC 866   | Honda CRF250R (4 Valve)                   | 31.0mm Std. H/D  | Inlet   | O/E Titanium 18.2g                                                                | 26.3   |
|           |                                           |                  |         |                                                                                   |        |
| REC 867   | Honda CRF250R (4 Valve)                   | 26.0mm Std. H/D  | Exhaust | O/E Steel                                                                         | 25.3   |
| REC       | Honda GL1000                              | 32mm             | Exhaust |                                                                                   |        |
| REC       | Honda RC173                               | 21.5mm           | Inlet   |                                                                                   |        |
| REC 717   | Honda VFR400R <b>NC30</b> 400cc 1989 - 92 | 22.5mm           | Inlet   | Flat Back                                                                         | 17.4   |
| REC 718   | Honda VFR400R <b>NC30</b> 400cc 1989 - 92 | 19.2mm           | Exhaust | Flat Back                                                                         | 15.5   |
| REC 717   | Honda RVF400R <b>NC35</b> 400cc 1994 - 96 | 22.5mm           | Inlet   | Flat Back                                                                         | 17.4   |
| REC 718   | Honda RVF400R <b>NC35</b> 400cc 1994 - 96 | 19.2mm           | Exhaust | Flat Back                                                                         | 15.5   |
| REC 635   | Honda VFR750R <b>RC30</b> 750cc 1987 - 90 | 28.0mm Std. H/D  | Inlet   | Dished                                                                            | 24.3   |
| REC 418   |                                           | 28.5mm           | Inlet   | Dished                                                                            |        |
| REC 419   |                                           | 29.0mm           | Inlet   | Dished                                                                            | 27.4   |
| REC 419SS |                                           | 29.0mm           | Inlet   | Stellite Seat, Dished                                                             | 27.4   |
| REC 636   | Honda VFR750R <b>RC30</b> 750cc 1987 - 90 | 24.5mm Std. H/D  | Exhaust | Dished                                                                            | 21.9   |
| REC 420   |                                           | 25.5mm           | Exhaust | Dished                                                                            | 23.3   |
| REC 629   | Honda RFV750R <b>RC45</b> 750cc 1994 - 95 | 29.0mm Std. H/D  | Inlet   | Std. Length, Flat Underhead & Backs                                               | 26.9   |
| REC 633   |                                           | 29.0mm Std. H/D  | Inlet   | Seat to Groove -0.3mm, Length -0.3mm<br>Flat Underhead & Backs                    | 26.9   |
| REC 633SS |                                           | 29.0mm Std. H/D  | Inlet   | Stellite Seat, Seat to Groove -0.3mm,<br>Length -0.3mm, Flat Underhead &<br>Backs | 26.9   |
| REC 630   | Honda RFV750R <b>RC45</b> 750cc 1994 - 95 | 24.5mm Std. H/D  | Exhaust | Std. Length, Flat Underhead & Backs                                               | 23.0   |
| REC 634   |                                           | 24.5mm Std. H/D  | Exhaust | Seat to Groove -0.3mm, Length- 0.3mm<br>Flat Underhead & Backs                    | 23.0   |
| REC 336   | Honda XL500 500cc 1979 - 1982             | 35.5mm           | Inlet   | Dished                                                                            | 56.3   |
| REC 337   | Honda XL500 500cc 1979 - 1982             | 31.0mm           | Exhaust | Dished                                                                            | 45.0   |
| REC 378   | Honda XL600 589cc 1983 - 1987             | 35.7mm           | Inlet   | Radial Head, Dished                                                               | 49.1   |
| REC 379   | Honda XL600 589cc 1983 - 1987             | 31.0mm           | Exhaust | Radial Head, Dished                                                               | 50.9   |
| REC       | Honda XRV750 V-Twin                       | 27.25mm Std. H/D | Inlet   | (x2)                                                                              |        |
| REC       | Honda XRV750 V-Twin                       | 33.5mm Std. H/D  | Exhaust | (x1)                                                                              |        |
| REC 954   | Honda VF750 1983-85                       | 28.5mm O/S H/D   | Inlet   | Dished, 1.5mm Seat, O/S H/D +1mm                                                  | 32.4   |
| REC 955   | Honda VF750 1983-85                       | 24.0mm O/S H/D   | Exhaust | Dished, 1.75mm Seat, O/S H/D +1mm                                                 | 28.7   |
| 52215     | Honda VTR1000F Firestorm 1997 - 2005      | 38mm Std. H/D    | Inlet   | Flat Back                                                                         | 60.6   |
| 52159     |                                           | 39mm             | Inlet   | O/S. H/D +1mm, Flat Back                                                          | 62.8   |
| 52228     | Honda VTR1000F Firestorm 1997 - 2005      | 34mm Std. H/D    | Exhaust | Flat Back                                                                         | 53.8   |
| 52160     |                                           | 35mm             | Exhaust | O/S H/D +1mm, Flat Back                                                           | 56.5   |



## Husaberg / VOR & Vertemati

| Part No. | Application                 | Head Diameter | Type    | Comments | Weight |
|----------|-----------------------------|---------------|---------|----------|--------|
| REC 671  | FE350cc / FE400cc 1995      | 31.0mm        | Inlet   |          |        |
| REC 672  | FE350cc / FE400cc 1995      | 27.0mm        | Exhaust |          |        |
| REC 506  | FE550cc / FE600cc 1990-1999 | 35.0mm        | Inlet   |          |        |
| REC 507  | FE550cc / FE600cc 1990-1999 | 30.0mm        | Exhaust |          |        |

## Husqvarna (Retainers Available)

| Part No. | Application                     | Head Diameter   | Type    | Comments                       | Weight |
|----------|---------------------------------|-----------------|---------|--------------------------------|--------|
| REC 844  | Husqvarna TE 250cc, 2003 - 2005 | 29.0mm Std. H/D | Inlet   | O/E Titanium 17.4g, 4.5mm Stem | 25.3   |
| REC 845  | Husqvarna TE 250cc, 2003 - 2005 | 24.0mm Std. H/D | Exhaust | O/E Titanium 13.0g, 4.5mm Stem | 21.0   |
| REC 515  | Husqvarna TE 350cc 1992-On      | 32.5mm          | Inlet   | Dished                         | 44.1   |
| REC 516  | Husqvarna TE 350cc 1992-On      | 27.0mm          | Exhaust | Dished                         | 36.3   |
| REC 515  | Husqvarna TE 410cc 1994-2001    | 32.5mm          | Inlet   | Dished                         | 44.1   |
| REC 516  | Husqvarna TE 410cc 1994-2001    | 27.0mm          | Exhaust | Dished                         | 36.3   |
| REC 847  | Husqvarna TE 450cc, 2004 - 2006 | 33.0mm Std. H/D | inlet   | O/E Titanium 22.5g             | 32.3   |
| REC 848  | Husqvarna TE 450cc, 2004 - 2006 | 28.6mm Std. H/D | exhaust | O/E Titanium 16.5g             | 25.5   |
| REC 894  | Husqvarna TE 450cc 2006 - On    | 37.0mm          | Inlet   | Flat Back                      | 42.3   |
| REC 895  | Husqvarna TE 450cc 2006 - On    | 31.0mm          | Exhaust | Flat Back                      | 32.5   |
| REC 452  | Husqvarna 510cc 1983 - 1990     | 34.7mm          | Inlet   | Dished                         | 48.7   |
| REC 453  | Husqvarna 510cc 1983 - 1990     | 30.0mm          | Exhaust | Dished                         | 38.2   |
| REC 894  | Husqvarna 510cc 2006 - On       | 37.0mm          | Inlet   | Flat Back                      | 42.3   |
| REC 895  | Husqvarna 510cc 2006 - On       | 31.0mm          | Exhaust | Flat Back                      | 32.5   |
| REC 452  | Husqvarna 610cc 1991 - 1994     | 34.7mm          | Inlet   | Dished                         | 48.7   |
| REC 453  | Husqvarna 610cc 1991 - 1994     | 30.0mm          | Exhaust | Dished                         | 38.2   |
| REC 544  | Husqvarna 610cc                 | 36.0mm          | Inlet   | Dished                         | 51.4   |
| REC 545  | Husqvarna 610cc                 | 32.5mm          | Exhaust | Dished                         | 43.0   |

## Jawa

| Part No. | Application | Head Diameter | Type    | Comments | Weight |
|----------|-------------|---------------|---------|----------|--------|
| REC 321  |             | 34.0mm        | Inlet   |          |        |
| REC 322  |             | 29.0mm        | Exhaust |          |        |

## Kawasaki (Retainers Available) (PTO)

| Part No. | Application                         | Head Diameter   | Type    | Comments                   | Weight |
|----------|-------------------------------------|-----------------|---------|----------------------------|--------|
| REC 939  | Kawasaki ER6 Ninja, 650cc 2006-2017 | 34.4mm          | Inlet   | O/S H/D +1.0mm, Flat Backs |        |
| REC 940  | Kawasaki ER6 Ninja, 650cc 2006-2017 | 28.8mm          | Exhaust | O/S H/D +0.5mm, Flat Backs |        |
| REC 638  | Kawasaki KLX250                     | 29.0mm          | Inlet   | Flat Back                  | 20.6   |
| REC 896  | Kawasaki KX250F                     | 31.0mm Std. H/D | Inlet   | O/E Titanium 16.0g         | 24.8   |
| REC 897  | Kawasaki KX250F                     | 24.9mm Std. H/D | Exhaust | O/E Titanium 12.6g         | 18.8   |
| REC      | Kawasaki KZ1300                     | 31.0mm          |         |                            |        |
| REC      | Kawasaki GPZ550                     | 28.0mm          | Inlet   |                            |        |
| REC 449  | Kawasaki GPZ600R (Ninja) 1985-1989  | 22.5mm          | Inlet   | Flat Back                  | 20.9   |
| REC 450  | Kawasaki GPZ600R (Ninja) 1985-1989  | 20.0mm          | Exhaust | Flat Back                  | 18.3   |
| REC      | Kawasaki GPZ900R                    | 29.0mm          | Inlet   |                            |        |



## Kawasaki (Retainers Available) (PTO) - Continued

| Part No.  | Application                          | Head Diameter   | Type    | Comments                                                                   | Weight |
|-----------|--------------------------------------|-----------------|---------|----------------------------------------------------------------------------|--------|
| REC 481   | Kawasaki Z900 A4 1975-77             | 36.0mm Std. H/D | Inlet   | Dished, <b>Square Groove, Collet 12011-0020</b>                            | 52.2   |
| REC 482   |                                      | 37.0mm          | Inlet   | Dished, <b>Square Groove, Collet 12011-0020</b>                            | 55.5   |
| REC 483   | Kawasaki Z900 A4 1975-77             | 30.0mm Std. H/D | Exhaust | Dished, <b>Square Groove, Collet 12011-0020</b>                            | 49.4   |
| REC 484   |                                      | 31.0mm          | Exhaust | Dished, <b>Square Groove, Collet 12011-0020</b>                            | 47.8   |
| REC 481   | Kawasaki Z1000, Z1, Z1A, Z1B 1972-77 | 36.0mm Std. H/D | Inlet   | Dished, <b>Square Groove, Collet 12011-0020</b>                            | 52.2   |
| REC 482   |                                      | 37.0mm          | Inlet   | Dished, <b>Square Groove, Collet 12011-0020</b>                            | 55.5   |
| REC 483   | Kawasaki Z1000, Z1, Z1A, Z1B 1972-77 | 30.0mm Std. H/D | Exhaust | Dished, <b>Square Groove, Collet 12011-0020</b>                            | 49.4   |
| REC 484   |                                      | 31.0mm          | Exhaust | Dished, <b>Square Groove, Collet 12011-0020</b>                            | 47.8   |
| REC       | Kawasaki ZX10                        | 31.0mm Std. H/D | Inlet   | <b>O/E Steel</b>                                                           | 25.6   |
| REC       | Kawasaki ZX10                        | 25.5mm Std. H/D | Exhaust | <b>O/E Titanium 13.7g</b>                                                  | 20.0   |
| REC 657/1 | Kawasaki ZX6R 1995 - On              | 27.0mm Std. H/D | Inlet   | Std. Groove, Flat Back, Std. Collets                                       | 19.7   |
| REC 657   |                                      | 27.0mm Std. H/D | Inlet   | Flat Back, <b>Kit, SK4 Collets</b>                                         | 19.8   |
| REC 657K  |                                      | 27.0mm Std. H/D | Inlet   | Flat Back, Modified Underhead, <b>Kit, SK4 Collets</b>                     | 19.3   |
| REC 797   |                                      | 27.0mm Std. H/D | Inlet   | Flat Back, Length -0.2mm<br>Seat to Groove -0.2mm, <b>Kit, SK4 Collets</b> | 19.2   |
| REC 658/1 | Kawasaki ZX6R 1995 - On              | 22.5mm Std. H/D | Exhaust | Std. Groove, Flat Back, Std. Collets                                       | 17.3   |
| REC 658   |                                      | 22.5mm Std. H/D | Exhaust | Flat Back, <b>Kit, SK4 Collets</b>                                         | 17.3   |
| REC 809/1 | Kawasaki ZX6RR 2002 - 2004           | 27.0mm Std. H/D | Inlet   | Dished, <b>Kit, SK4 Collets</b>                                            | 20.1   |
| REC 810/1 | Kawasaki ZX6RR 2002 - 2004           | 22.6mm Std. H/D | Exhaust | Dished, <b>Kit, SK4 Collets</b>                                            | 17.9   |
| REC 840/1 | Kawasaki ZX6RR 2004 - On             | 27.5mm Std. H/D | Inlet   | Dished, <b>Kit, SK4 Collets</b>                                            | 19.2   |
| REC 841/1 | Kawasaki ZX6RR 2004 - On             | 22.6mm Std. H/D | Exhaust | Dished, <b>Kit, SK4 Collets</b>                                            | 16.8   |
| REC 708   | Kawasaki ZX7R 1996 - 2003            | 29.0mm          | Inlet   | Flat Back                                                                  | 25.4   |
| REC 719   |                                      | 30.0mm          | Inlet   | Flat Back                                                                  | 26.7   |
| REC 709   | Kawasaki ZX7R 1996 - 2003            | 25.0mm          | Exhaust | Flat Back                                                                  | 22.0   |
| REC 851   | Kawasaki ZX12R 2002 -2006            | 33.5mm          | Inlet   | Dished                                                                     | 34.5   |
| REC 852   | Kawasaki ZX12R 2002 -2006            | 28.3mm          | Exhaust | Dished                                                                     | 29.0   |
| REC 587   | Kawasaki ZXR400 1989 - On            | 22.0mm          | Inlet   | Dished, Std. Length, Std. Collets<br>Seat to Groove -0.5mm                 | 13.5   |
| REC 587/1 |                                      | 22.0mm          | Inlet   | Dished, Std. Length, <b>Kit, SK4 Collets</b><br>Seat to Groove -0.5mm      | 13.5   |
| REC 627   |                                      | 22.0mm          | Inlet   | Flat Back, Std. Length, Std. Collets<br>Seat to Groove -0.5mm              | 13.8   |
| REC 627/1 |                                      | 22.0mm          | Inlet   | Flat, Std. Length, <b>Kit, SK4 Collets</b><br>Seat to Groove -0.5mm        | 13.8   |
| REC 588   | Kawasaki ZXR400 1989 - On            | 19.0mm          | Exhaust | Dished, Std. Length, Std. Collets<br>Seat to Groove -0.5mm                 | 12.6   |
| REC 588/1 |                                      | 19.0mm          | Exhaust | Dished, Std. Length, <b>Kit, SK4 Collets</b><br>Seat to Groove -0.5mm      | 12.6   |
| REC 628   |                                      | 19.0mm          | Exhaust | Flat Back, Std. Length, Std. Collets<br>Seat to Groove -0.5mm              | 13.2   |
| REC 628/1 |                                      | 19.0mm          | Exhaust | Flat, Std. Length, <b>Kit, SK4 Collets</b><br>Seat to Groove -0.5mm        | 13.2   |



## Kawasaki (Retainers Available) (PTO) - Continued

| Part No.                                                                                              | Application                  | Head Diameter   | Type    | Comments                                 | Weight |
|-------------------------------------------------------------------------------------------------------|------------------------------|-----------------|---------|------------------------------------------|--------|
| REC 550                                                                                               | Kawasaki ZXR750 1989 - 1995  | 29.0mm Std. H/D | Inlet   | Flat Back                                | 25.2   |
| REC 551                                                                                               | Kawasaki ZXR750 1989 - 1995  | 25.0mm Std. H/D | Exhaust | Flat Back                                | 21.7   |
| <b>Springs (REC 006) &amp; Titanium Retainers (10537), using std. Collets to suit Kawasaki ZXR750</b> |                              |                 |         |                                          |        |
| REC 708                                                                                               | Kawasaki ZXR750R 1996 - 2003 | 29.0mm          | Inlet   | Flat Back                                | 25.4   |
| REC 719                                                                                               |                              | 30.0mm          | Inlet   | Flat Back                                | 26.7   |
| REC 709                                                                                               | Kawasaki ZXR750R 1996 - 2003 | 25.0mm          | Exhaust | Flat Back                                | 22.0   |
| REC 631                                                                                               | Kawasaki ZZR600 1994 - On    | 26.0mm Std. H/D | Inlet   | 'D' Motor, Flat Back                     | 23.1   |
| REC 632                                                                                               | Kawasaki ZZR600 1994 - On    | 22.0mm          | Exhaust | Std. H/D, 'D' Motor, Flat Back           | 20.1   |
| REC 840/1                                                                                             | Kawasaki ZZR600 2004 - On    | 27.5mm Std. H/D | Inlet   | Dished (Dimple), <b>Kit, SK4 Collets</b> | 23.1   |
| REC 841/1                                                                                             | Kawasaki ZZR600 2004 - On    | 22.5mm Std. H/D | Exhaust | Dished (Dimple), <b>Kit, SK4 Collets</b> | 20.1   |
| REC 605                                                                                               | Kawasaki ZZR1100 1990 - 2001 | 31.5mm          | Inlet   | Dished                                   | 31.4   |
| REC 887                                                                                               |                              | 31.5mm          | Inlet   | Dished, Length -0.762mm                  |        |
| REC 734                                                                                               |                              | 32.5mm          | Inlet   | Dished                                   | 32.9   |
| REC 693                                                                                               | Kawasaki ZZR1100 1990 - 2001 | 27.0mm          | Exhaust | Dished                                   | 25.5   |
| REC 888                                                                                               |                              | 27.0mm          | Exhaust | Dished, Length -0.762mm                  | 25.5   |

## KTM

|           |                                  |        |         |                          |  |
|-----------|----------------------------------|--------|---------|--------------------------|--|
| REC 667   | EGS, KTMC4, SC & SX (620 Single) | 36.0mm | Inlet   | LC4 Engine               |  |
| REC 668   | EGS, KTMC4, SC & SX (620 Single) | 30.0mm | Exhaust | LC4 Engine               |  |
| REC 668/1 |                                  | 32.0mm | Exhaust | LC4 Engine, O/S H/D +2mm |  |
| REC 941   | KTM 250cc 2002 - on              | 28.0mm | Inlet   | RFS Engine               |  |

## Rotax

| Part No.  | Application                | Head Diameter | Type    | Comments                             | Weight |
|-----------|----------------------------|---------------|---------|--------------------------------------|--------|
| REC 941   | 250cc 2002-on (RFS Engine) | 28.0mm        | Inlet   | Std. H/D, Triple Groove, MK6 Collets |        |
| REC 667   | Rotax 500cc                | 36.0mm        | Inlet   | Std. H/D, Triple Groove, MK7 Collets |        |
| REC 706   |                            | 37.5mm        | Inlet   | O/S H/D +1.5mm, Triple Groove, MK7   |        |
| REC 668   | Rotax 500cc                | 30.0mm        | Exhaust | Std. H/D, Triple Groove, MK7 Collets |        |
| REC 668/1 |                            | 32.0mm        | Exhaust | O/S H/D +2mm, Triple Groove, MK7     |        |

## Suzuki (Retainers Available) (PTO)

| Part No. | Application                        | Head Diameter | Type    | Comments               | Weight |
|----------|------------------------------------|---------------|---------|------------------------|--------|
| REC      | Suzuki DRZ400                      | 31.0mm        | Exhaust |                        | 31.5   |
| REC 527  | Suzuki DR750S Super Mono 1988-1989 | 41.0mm        | Inlet   |                        |        |
| REC      |                                    | 42.0mm        | Inlet   | O/S H/D +1mm           |        |
| REC 528  | Suzuki DR750S Super Mono 1988-1989 | 35.0mm        | Exhaust |                        |        |
| REC 527  | Suzuki DR800S Super Mono 1990-1997 | 41.0mm        | Inlet   |                        |        |
| REC      |                                    | 42.0mm        | Inlet   | O/S H/D +1mm           |        |
| REC 528  | Suzuki DR800S Super Mono 1990-1997 | 35.0mm        | Exhaust |                        |        |
| REC 485  | Suzuki GS1000/GS1100 1976 - 1983   | 38.0mm        | Inlet   | Std. H/D, Dished       | 54.0   |
| REC 415  |                                    | 39.0mm        | Inlet   | O/S H/D +1mm, Dished   | 52.8   |
| REC 416  |                                    | 40.0mm        | Inlet   | O/S H/D +2mm, Dished   | 53.1   |
| REC 622  |                                    | 41.0mm        | Inlet   | O/S H/D +3mm, Dished   | 63.9   |
| REC 486  | Suzuki GS1000/GS1100 1976 - 1983   | 32.0mm        | Exhaust | Std. H/D, Dished       | 49.9   |
| REC 417  |                                    | 33.5mm        | Exhaust | O/S H/D +1.5mm, Dished | 50.5   |



## Suzuki (Retainers Available) (PTO) - Continued

| Part No.  | Application                                 | Head Diameter   | Type    | Comments                                                                                | Weight |
|-----------|---------------------------------------------|-----------------|---------|-----------------------------------------------------------------------------------------|--------|
| REC 323   | Suzuki GSX1100, Katana 1979 - 1983          | 28.5mm          | Inlet   | O/S +1.5mm, Dish, Collet 12932-49200 (Will fit on Std. Seats, Max. 20.5mm)              | 29.2   |
| REC 324   |                                             | 29.0mm          | Inlet   | O/S +2.0mm, Dish, Collet 12932-49200 (Will fit on Std. Seats, Max. 20.5mm)              | 29.2   |
| REC 329   |                                             | 30.0mm          | Inlet   | O/S +3.0mm, Dish, Collet 12932-49200                                                    | 27.7   |
| REC 342   |                                             | 31.5mm          | Inlet   | O/S +3.5mm, Dish, Collet 12932-49200                                                    | 33.6   |
| REC 710   |                                             | 33.0mm          | Inlet   | O/S +6.0mm, Dish, Collet 12932-49200                                                    | 36.3   |
| REC 325   | Suzuki GSX1100, Katana 1979 - 1983          | 25.0mm          | Exhaust | O/S +2.0mm, Dish, Collet 12932-49200 Requires Seat Inserts Largest on Std. Seat is 24mm | 24.0   |
| REC 326   |                                             | 25.5mm          | Exhaust | O/S +2.5mm, Dish, Collet 12932-49200 Requires Seat Inserts Largest on Std. Seat is 24mm | 24.6   |
| REC 323   | Suzuki GSX1150 E, ES, EFE, Katana 1984 - 86 | 28.5mm          | Inlet   | O/S +0.5mm, Dish, Collet 12932-49200 (Will fit on Std. Seats)                           | 29.2   |
| REC 324   |                                             | 29.0mm          | Inlet   | O/S +1.0mm, Dish, Collet 12932-49200 (Will fit on Std. Seats)                           | 29.2   |
| REC 329   |                                             | 30.0mm          | Inlet   | O/S +2.0mm, Dish, Collet 12932-49200                                                    | 27.7   |
| REC 342   |                                             | 31.5mm          | Inlet   | O/S +2.5mm, Dish, Collet 12932-49200                                                    | 33.6   |
| REC 710   |                                             | 33.0mm          | Inlet   | O/S +3.0mm, Dish, Collet 12932-49200                                                    | 36.3   |
| REC 325   | Suzuki GSX1150 E, ES, EFE, Katana 1984 - 86 | 25.0mm          | Exhaust | O/S +2.0mm, Dish, Collet 12932-49200 Requires Seat Inserts Largest on Std. Seat is 24mm | 24.0   |
| REC 326   |                                             | 25.5mm          | Exhaust | O/S +2.5mm, Dish, Collet 12932-49200 Requires Seat Inserts Largest on Std. Seat is 24mm | 24.6   |
| REC 731   | Suzuki GSXR400 1984 - 1996                  | 22.5mm          | Inlet   | Dished                                                                                  | 15.3   |
| REC 732   | Suzuki GSXR400 1984 - 1996                  | 20.0mm          | Exhaust | Dished                                                                                  | 13.3   |
| REC 745   | Suzuki GSXR600WX 1999 - On                  | 26.5mm Std. H/D | Inlet   | 1.5mm Seat, Dish, Std. Collets                                                          | 24.5   |
| REC 746   | Suzuki GSXR600WX 1999 - On                  | 22.0mm Std. H/D | Exhaust | Stemite Seat, 1.5mm Seat, Dish, Std. Collet                                             | 18.4   |
| REC 803   | Suzuki GSXR600 2001 - 2003                  | 27.2mm Std. H/D | Inlet   | Dish, Std. Collets                                                                      | 21.0   |
| REC 803/1 |                                             | 27.2mm Std. H/D | Inlet   | Dish, Kit, SK4 Collets                                                                  | 21.0   |
| REC 811/1 |                                             | 27.2mm Std. H/D | Inlet   | Flat Back, Kit, SK4 Collets                                                             | 22.8   |
| REC 804   | Suzuki GSXR600 2001 - 2003                  | 22.0mm Std. H/D | Exhaust | Dish, Std. Collets                                                                      | 15.7   |
| REC 804/1 |                                             | 22.0mm Std. H/D | Exhaust | Dish, Kit, SK4 Collets                                                                  | 15.7   |
| REC 812/1 |                                             | 22.0mm Std. H/D | Exhaust | Flat Back, Kit, SK4 Collets                                                             | 16.9   |
| REC 842   | Suzuki GSXR600 2004 - On                    | 27.2mm Std. H/D | Inlet   | 1mm Seat, Dished, Std. Collets<br>EN52 Inlet Material, O/E Titanium 15.4g               | 21.9   |
| REC 870   |                                             | 27.1mm Std. H/D | Inlet   | Dished, Kit, SK4.5, O/E Titanium 15.4g                                                  | 22.5   |
| REC 843   | Suzuki GSXR600 2004 - On                    | 22.0mm Std. H/D | Exhaust | 1.5mm Seat, Dished, Std. Collets<br>O/E Titanium 11.8g                                  | 17.8   |
| REC 871   |                                             | 22.0mm Std. H/D | Exhaust | Dished, Kit, SK4.5, O/E Titanium 11.8g                                                  | 17.8   |



## Suzuki (Retainers Available) (PTO) - Continued

| Part No.  | Application                     | Head Diameter   | Type    | Comments                                             | Weight |
|-----------|---------------------------------|-----------------|---------|------------------------------------------------------|--------|
| REC 642   | Suzuki GSXR750WN/WP 1993 - 1995 | 27.0mm Std. H/D | Inlet   | Water Cooled, Flat Back                              | 25.3   |
| REC 643   | Suzuki GSXR750WN/WP 1993 - 1995 | 24.0mm Std. H/D | Exhaust | Water Cooled, Flat Back                              | 20.5   |
| REC 700   | Suzuki GSXR750WP 1996 - On      | 29.0mm Std. H/D | Inlet   | Water Cooled, Flat Back                              | 24.0   |
| REC 744   |                                 | 30.0mm          | Inlet   | Water Cooled, Flat Back                              | 25.0   |
| REC 701   | Suzuki GSXR750WP 1996 - On      | 24.0mm Std. H/D | Exhaust | Water Cooled, Flat Back                              | 20.6   |
| REC 730   |                                 | 25.0mm          | Exhaust | Water Cooled, Flat Back                              | 21.5   |
| REC 799   | Suzuki GSXR750 2001 - 2004      | 29.0mm Std. H/D | Inlet   | Dished, Std. Collets                                 | 24.1   |
| REC 799/1 |                                 | 29.0mm Std. H/D | Inlet   | Dished, <b>Kit, SK4 Collets</b>                      | 24.1   |
| REC 801   |                                 | 29.0mm Std. H/D | Inlet   | Flat Back, Std. Collets                              | 24.1   |
| REC 801/1 |                                 | 29.0mm Std. H/D | Inlet   | Flat Back, <b>Kit, SK4 Collets</b>                   | 24.1   |
| REC 865   |                                 | 29.5mm          | Inlet   | Flat Back, <b>Kit, SK4 Collets</b>                   | 24.4   |
| REC 863   |                                 | 30.0mm Std. H/D | Inlet   | O/S H/D +1mm, Flat Back                              | 26.7   |
| REC 800   | Suzuki GSXR750 2001 - 2004      | 24.0mm Std. H/D | Exhaust | Dished, Std. Collets                                 | 19.1   |
| REC 800/1 |                                 | 24.0mm Std. H/D | Exhaust | Dished, <b>Kit, SK4 Collets</b>                      | 19.1   |
| REC 802   |                                 | 24.0mm Std. H/D | Exhaust | Flat Back, Std. Collets                              | 19.1   |
| REC 802/1 |                                 | 24.0mm Std. H/D | Exhaust | Flat Back, <b>Kit, SK4 Collets</b>                   | 19.1   |
| REC 919   |                                 | 25.0mm          | Exhaust | O/S H/D +1mm, Flat Back, Std. Collets                | 20.1   |
| REC 861   | Suzuki GSXR750, 2005 - On       | 30.0mm Std. H/D | Inlet   | 1mm Seat, Std. Collets, <b>O/E Titanium</b>          | 26.1   |
| REC 861/1 |                                 | 30.0mm Std. H/D | Inlet   | 1mm Seat, <b>Kit, SK4.5, O/E Titanium</b>            | 26.1   |
| REC 862   | Suzuki GSXR750, 2005 - On       | 24.0mm Std. H/D | Exhaust | 1.5mm Seat, Std. Collets, <b>O/E Titanium</b>        | 20.7   |
| REC 862/1 |                                 | 24.0mm Std. H/D | Exhaust | 1.5mm Seat, <b>Kit, SK4.5, O/E Titanium</b>          | 20.7   |
| REC 799   | Suzuki GSXR1000 2001 - 2004     | 29.0mm Std. H/D | Inlet   | Dished, Std. Collets                                 | 24.1   |
| REC 799/1 |                                 | 29.0mm Std. H/D | Inlet   | Dished, <b>Kit, SK4 Collets</b>                      | 24.1   |
| REC 801   |                                 | 29.0mm Std. H/D | Inlet   | Flat Back, Std. Collets                              | 24.1   |
| REC 801/1 |                                 | 29.0mm Std. H/D | Inlet   | Flat Back, <b>Kit, SK4 Collets</b>                   | 24.1   |
| REC 865   |                                 | 29.5mm          | Inlet   | O/S H/D +0.5mm, Flat Back<br><b>Kit, SK4 Collets</b> | 24.4   |
| REC 863   |                                 | 30.0mm          | Inlet   | O/S H/D +1mm, Flat Back, Std. Collets                |        |
| REC 800   | Suzuki GSXR1000 2001 - 2004     | 24.0mm Std. H/D | Exhaust | Dished, Std. Collets                                 | 19.1   |
| REC 800/1 |                                 | 24.0mm Std. H/D | Exhaust | Dished, <b>Kit, SK4 Collets</b>                      | 19.1   |
| REC 802   |                                 | 24.0mm Std. H/D | Exhaust | Flat Back, Std. Collets                              | 19.1   |
| REC 802/1 |                                 | 24.0mm Std. H/D | Exhaust | Flat Back, <b>Kit, SK4 Collets</b>                   | 19.1   |
| REC 919   |                                 | 25.0mm          | Exhaust | O/S H/D +1.0mm, Flat Back, Std. Collets              | 20.1   |
| REC 861   | Suzuki GSXR1000 K5, 2005 - On   | 30.0mm Std. H/D | Inlet   | 1mm Seat, <b>O/E Titanium</b>                        | 26.1   |
| REC 862   | Suzuki GSXR1000 K5, 2005 - On   | 24.0mm Std. H/D | Exhaust | 1.5mm Seat, <b>O/E Titanium</b>                      | 20.7   |
| REC 861/1 | Suzuki GSXR1000 K5, 2005 - On   | 30.0mm Std. H/D | Inlet   | <b>Kit, SK4.5 Collets, O/E Titanium 13.0g</b>        | 26.1   |
| REC 862/1 | Suzuki GSXR1000 K5, 2005 - On   | 24.0mm Std. H/D | Exhaust | <b>Kit, SK4.5 Collets, O/E Titanium 18.0g</b>        | 20.7   |



## Suzuki (Retainers Available) (PTO) - Continued

| Part No.  | Application                                                            | Head Diameter   | Type    | Comments                                                                        | Weight |
|-----------|------------------------------------------------------------------------|-----------------|---------|---------------------------------------------------------------------------------|--------|
| REC 487   | Suzuki GSXR1100G/H/J/K/L 1986 - 1990                                   | 30.0mm          | Inlet   | O/S H/D+1mm, 2.1mm Seat, Rocker Eng. Dished (G/H/J), 1052cc, (K/L) 1127cc       | 29.9   |
| REC 487/1 |                                                                        | 30.0mm          | Inlet   | O/S H/D+1mm, 1.2mm Seat, Rocker Eng. Dished (G/H/J), 1052cc, (K/L) 1127cc       | 29.9   |
| REC 616   |                                                                        | 31.0mm          | Inlet   | O/S H/D+2mm, 2.1mm Seat, Rocker Eng. Dished (G/H/J) 1052cc, (K/L) 1127cc        | 31.6   |
| REC 488   | Suzuki GSXR1100G/H/J/K/L 1986 - 1990                                   | 26.0mm          | Exhaust | O/S H/D+1mm, 2.1mm Seat, Rocker Eng. Dished (G/H/J) 1052cc, (K/L) 1127cc        | 24.7   |
| REC 488/1 |                                                                        | 26.0mm          | Exhaust | O/S H/D+1mm, 1.5mm Seat, Rocker Eng. Dished (G/H/J) 1052cc, (K/L) 1127cc        | 24.7   |
| REC 617   |                                                                        | 27.0mm          | Exhaust | O/S H/D+2mm, 2.1mm Seat, Rocker Eng. Dished (G/H/J) 1052cc, (K/L) 1127cc        | 26.0   |
| REC 646   | Suzuki GSXR1100M/N 1991 - 1992                                         | 28.5mm Std. H/D | Inlet   | 1mm Seat, Oil & Air Cooled, Flat Back                                           | 26.4   |
| REC 691   | Suzuki Bandit 1200 GSF1200 1996-2007                                   | 30.0mm          | Inlet   | 1mm Seat, Oil & Air Cooled, Flat Back                                           | 28.2   |
| REC 647   | Suzuki GSXR1100M/N 1991 - 1992<br>Suzuki Bandit 1200 GSF1200 1996-2007 | 25.0mm Std. H/D | Exhaust | 2.3mm Seat, Oil & Air Cooled, Flat Back                                         | 24.0   |
| REC 692   |                                                                        | 26.0mm          | Exhaust | 2.3mm Seat, Oil & Air Cooled, Flat Back                                         | 25.0   |
| REC 692/1 |                                                                        | 26.0mm          | Exhaust | 1.5mm Seat, Oil & Air Cooled, Flat Back                                         | 25.0   |
| REC 644   | Suzuki GSXR1100WP/WR 1993 - On                                         | 31.0mm Std. H/D | Inlet   | 1.75mm Seat, Water Cooled, Flat Back                                            | 30.5   |
| REC 721   | Suzuki GSXR1100WP/WR 1993 - On                                         | 32.0mm          | Inlet   | 1.75mm Seat, Water Cooled,                                                      | 32.1   |
| REC 645   | Suzuki GSXR1100WP/WR 1993 - On                                         | 27.0mm Std. H/D | Exhaust | Flat Back, 2.3mm Seat, Water Cooled                                             | 25.5   |
| REC 722   | Suzuki GSXR1100WP/WR 1993 - On                                         | 28.0mm          | Exhaust | 2.3mm Seat, Water Cooled, Flat Back                                             | 26.8   |
| REC 817   | Suzuki GSXR1300 Hayabusa 1999 - 2007                                   | 33.0mm Std. H/D | Inlet   | 1.0mm Seat, Dished, First Generation                                            | 33.9   |
| REC 819   |                                                                        | 34.0mm          | Inlet   | 1.0mm Seat, Dished, First Generation                                            | 32.5   |
| REC 818   | Suzuki GSXR1300 Hayabusa 1999 - 2007                                   | 27.5mm Std. H/D | Exhaust | 1.5mm Seat, Dished, First Generation Light weight, <b>Bike Only</b>             | 25.9   |
| REC 818/1 |                                                                        | 27.5mm Std. H/D | Exhaust | 1.5mm Seat, Dished, 30 Deg. Break First Generation, <b>Radical (Car Engine)</b> | 27.0   |
| REC 820   |                                                                        | 28.5mm          | Exhaust | 1.5mm Seat, Dished, First Generation Light weight, <b>Bike Only</b>             | 27.0   |
| REC 820/1 |                                                                        | 28.5mm          | Exhaust | 1.5mm Seat, Dished, 30 Deg. Break First Generation, <b>Radical (Car Engine)</b> | 30.5   |
| REC 644   | Suzuki SV650 Twin                                                      | 31.0mm Std. H/D | Inlet   | 1.75mm Seat, Flat Back                                                          | 30.5   |
| REC 721   |                                                                        | 32.0mm          | Inlet   | 1.75mm Seat, Flat Back                                                          | 32.1   |
| REC 883   | Suzuki SV650 Twin                                                      | 25.5mm Std. H/D | Exhaust | Dished                                                                          |        |
| REC 884   |                                                                        | 27.0mm          | Exhaust | Flat Back                                                                       |        |
| REC       | Suzuki TL1000                                                          | 40.0mm Std. H/D | Inlet   |                                                                                 | 57.8   |
| REC       | Suzuki TL1000                                                          | 33.0mm Std. H/D | Exhaust |                                                                                 | 43.6   |
| REC 896   | Suzuki RMZ250                                                          | 24.9mm Std. H/D | Exhaust | <b>O/E Titanium 12.6g</b>                                                       | 18.8   |
| REC 897   | Suzuki RMZ250                                                          | 31.0mm Std. H/D | Inlet   | <b>O/E Titanium 16.0g</b>                                                       | 24.8   |
| REC 686   | Suzuki RF900                                                           | 29.0mm          | Inlet   | Flat Back                                                                       | 28.8   |
| REC 687   | Suzuki RF900                                                           | 25.0mm          | Exhaust | O/S H/D+1mm, Flat Back                                                          | 22.2   |



Vincent

| Part No. | Application              | Head Diameter   | Type    | Comments      | Weight |
|----------|--------------------------|-----------------|---------|---------------|--------|
| REC 345  | Black Lightning / Shadow | 1.805"/ 45.85mm | Inlet   |               |        |
| REC 346  | Black Lightning / Shadow | 1.675"/ 42.50mm | Exhaust | Stellite Seat |        |

## Yamaha (Retainers Available) (PTO)

| Part No. | Application               | Head Diameter | Type    | Comments             | Weight |
|----------|---------------------------|---------------|---------|----------------------|--------|
| REC 531  | Yamaha FJ1200 1984 - 1996 | 30.0mm        | Inlet   | Dished, O/S H/D +1mm | 29.3   |
| REC 532  | Yamaha FJ1200 1984 - 1996 | 26.0mm        | Exhaust | Dished, O/S H/D +1mm | 26.5   |

|         |                          |        |         |                         |      |
|---------|--------------------------|--------|---------|-------------------------|------|
| REC 349 | Yamaha FZ750 1985 - 1991 | 22.0mm | Inlet   | (x2) Dished, 1.7mm Seat |      |
| REC 350 |                          | 22.0mm | Inlet   | (x1) Dished, 1.7mm Seat |      |
| REC 351 | Yamaha FZ750 1985 - 1991 | 24.0mm | Exhaust | (x2) Dished, 2.3mm Seat | 25.1 |

|           |                                      |        |         |                                    |      |
|-----------|--------------------------------------|--------|---------|------------------------------------|------|
| REC 591   | Yamaha FZR400 (3TJ Engine) 1986 - 94 | 22.0mm | Inlet   | Dished, Std. Collets               | 15.0 |
| REC 623   |                                      | 22.0mm | Inlet   | Flat Back, Std. Collets            | 16.6 |
| REC 623/1 |                                      | 22.0mm | Inlet   | Flat Back, <b>Kit, SK4 Collets</b> | 16.6 |
| REC 592   | Yamaha FZR400 (3TJ Engine) 1986 - 94 | 19.0mm | Exhaust | Dished, Std. Collets               | 13.8 |
| REC 624   |                                      | 19.0mm | Exhaust | Flat Back, Std. Collets            | 14.1 |
| REC 624/1 |                                      | 19.0mm | Exhaust | Flat Back, <b>Kit, SK4 Collets</b> | 14.1 |

|         |                           |                 |         |                    |      |
|---------|---------------------------|-----------------|---------|--------------------|------|
| REC 618 | Yamaha FZR600 Upto - 1994 | 24.0mm Std. H/D | Inlet   | 0.8mm Seat, Dished | 19.2 |
| REC 619 | Yamaha FZR600 Upto - 1994 | 21.0mm Std. H/D | Exhaust | Dished             | 17.2 |



## Yamaha (Retainers Available) (PTO) - Continued

| Part No. | Application                | Head Diameter   | Type    | Comments              | Weight |
|----------|----------------------------|-----------------|---------|-----------------------|--------|
| REC 620  | Yamaha FZR600R 1994 - 1999 | 24.0mm Std. H/D | Inlet   | 1.5mm Seat, Flat Back | 18.0   |
| REC 625  |                            | 24.0mm Std. H/D | Inlet   | 2.1mm Seat, Flat Back | 17.8   |
| REC 864  |                            | 25.2mm          | Inlet   | 1mm Seat, Flat Back   | 18.0   |
| REC 621  | Yamaha FZR600R 1994 - 1999 | 21.0mm Std. H/D | Exhaust | Flat Back             | 16.1   |
| REC 626  |                            | 21.0mm Std. H/D | Exhaust | Flat Back             | 15.0   |

|         |                                 |                 |         |                         |      |
|---------|---------------------------------|-----------------|---------|-------------------------|------|
| REC 512 | Yamaha FRZ750R OWO1 1988 - 1991 | 23.0mm Std. H/D | Inlet   | (x1) Dished, 1.5mm Seat | 18.7 |
| REC 474 |                                 | 24.0mm          | Inlet   | (x1) Dished, 1.5mm Seat | 19.6 |
| REC 511 |                                 | 23.0mm Std. H/D | Inlet   | (x2) Dished, 1.5mm Seat | 18.9 |
| REC 473 |                                 | 24.0mm          | Inlet   | (x2) Dished, 1.5mm Seat | 19.8 |
| REC 510 | Yamaha FRZ750R OWO1 1988 - 1991 | 24.5mm Std. H/D | Exhaust | (x2) Dished, 1.5mm Seat | 20.6 |
| REC 475 |                                 | 25.5mm          | Exhaust | (x2) Dished, 1.5mm Seat | 21.5 |

|         |                                       |                 |         |                                |      |
|---------|---------------------------------------|-----------------|---------|--------------------------------|------|
| REC 652 | FZR1000 Exup / Thunderace 1987 - 1995 | 23.5mm Std. H/D | Inlet   | (x1) Flat Back                 | 19.3 |
| REC 651 |                                       | 23.5mm Std. H/D | Inlet   | (x2) Flat Back                 | 19.4 |
| REC 655 |                                       | 24.0mm          | Inlet   | O/S H/D +0.5mm, (x1) Flat Back | 19.7 |
| REC 654 |                                       | 24.0mm          | Inlet   | O/S H/D +0.5mm, (x2) Flat Back | 19.8 |
| REC 600 |                                       | 24.5mm          | Inlet   | O/S H/D +0.5mm, (x1) Flat Back | 20.1 |
| REC 653 | FZR1000 Exup / Thunderace 1987 - 1995 | 25.0mm Std. H/D | Exhaust | (x2) Flat Back                 | 20.7 |
| REC 656 |                                       | 25.5mm          | Exhaust | O/S H/D +0.5mm, (x2) Flat Back | 21.1 |

|       |              |        |         |  |      |
|-------|--------------|--------|---------|--|------|
| 52462 | Yamaha SR500 | 45.0mm | Inlet   |  | 94.1 |
| 52463 | Yamaha SR500 | 39.1mm | Exhaust |  | 80.8 |

|     |                          |        |         |              |      |
|-----|--------------------------|--------|---------|--------------|------|
| REC | Yamaha V-Max 1985 - 2007 | 31.5mm | Inlet   | O/S H/D +1mm | 34.9 |
| REC | Yamaha V-Max 1985 - 2007 | 26.0mm | Exhaust | O/S H/D +1mm | 30.2 |

|     |              |        |       |  |  |
|-----|--------------|--------|-------|--|--|
| REC | Yamaha XS650 | 41.1mm | Inlet |  |  |
|-----|--------------|--------|-------|--|--|

|     |                          |        |         |  |      |
|-----|--------------------------|--------|---------|--|------|
| REC | Yamaha XT500 1976 - 1981 | 45.0mm | Inlet   |  | 94.1 |
| REC | Yamaha XT500 1976 - 1981 | 39.1mm | Exhaust |  | 80.8 |

|         |                          |                 |         |             |      |
|---------|--------------------------|-----------------|---------|-------------|------|
| REC 640 | Yamaha XTZ660 Early 1992 | 30.0mm Std. H/D | Inlet   | (x3) Dished | 41.1 |
| REC 641 | Yamaha XTZ660 Early 1992 | 32.0mm Std. H/D | Exhaust | (x2) Dished | 43.7 |
| REC 774 |                          | 33.0mm          | Exhaust | (x2) Dished | 46.2 |

|         |                       |        |         |                                               |      |
|---------|-----------------------|--------|---------|-----------------------------------------------|------|
| REC 838 | Yamaha YZ250F, WR250F | 23.0mm | Inlet   | (x1) Dished, 1.0mm Seat<br>O/E Titanium 10.0g | 15.1 |
| REC 837 |                       | 23.0mm | Inlet   | (x2) Dished, 1.0mm Seat<br>O/E Titanium 10.1g | 15.1 |
| REC 839 | Yamaha YZ250F, WR250F | 24.5mm | Exhaust | (x2) Dished, 1.0mm Seat<br>O/E Titanium 12.3g | 18.4 |

|     |                        |                 |         |                        |      |
|-----|------------------------|-----------------|---------|------------------------|------|
| REC | Yamaha YZ426 2000 - On | 27.0mm Std. H/D | Inlet   | (x1)                   | 25.1 |
| REC |                        | 28.0mm          | Inlet   | (x1) O/S H/D +1mm      | 27.1 |
| REC |                        | 27.0mm Std. H/D | Inlet   | (x2)                   | 25.1 |
| REC |                        | 28.0mm          | Inlet   | (x2) O/S H/D +1mm      | 27.1 |
| REC | Yamaha YZ426 2000 - On | 28.0mm Std. H/D | Exhaust | (x2) Dished, O/E Steel | 30.7 |



## Yamaha (Retainers Available) (PTO) - Continued

| Part No.  | Application                         | Head Diameter   | Type    | Comments                                                                    | Weight |
|-----------|-------------------------------------|-----------------|---------|-----------------------------------------------------------------------------|--------|
| 54321     | Yamaha YZ450F                       | 27.0mm Std. H/D | Inlet   | (x1) EN52 Inlet Material, Std., Std. Stem Dished, <b>O/E Titanium 14.1g</b> | 17.5   |
| 54322     |                                     | 27.0mm Std. H/D | Inlet   | (x2) Dished, EN52 Inlet Material <b>O/E Titanium 14.2g</b>                  | 17.6   |
| 54323     | Yamaha YZ450F                       | 28.0mm Std. H/D | Exhaust | (x2) Dished, Std. Stem, <b>O/E Titanium 16</b>                              | 22.5   |
| REC 620   | Yamaha YZF600R Thundercat 1996 - 07 | 24.0mm Std. H/D | Inlet   | 1.25mm Seat, Flat Back                                                      | 18.0   |
| REC 625   |                                     | 24.0mm Std. H/D | Inlet   | <b>EN52 Inlet Material</b><br>1.25mm Seat, Flat Back                        | 15.8   |
| REC 864   |                                     | 25.2mm          | Inlet   | 1mm Seat, Flat Back                                                         | 18.0   |
| REC 621   | Yamaha YZF600R Thundercat 1996 - 07 | 21.0mm Std. H/D | Exhaust | Flat Back                                                                   | 16.1   |
| REC 626   |                                     | 21.0mm Std. H/D | Exhaust | Flat Back                                                                   | 15.0   |
| REC 599   | Yamaha YZF750P,R & SP 1993 - 1998   | 23.0mm Std. H/D | Inlet   | (x1) Flat Back, 1.5mm Seat                                                  | 18.7   |
| REC 583   |                                     | 23.0mm Std. H/D | Inlet   | (x1) Dished, 1.5mm Seat                                                     | 18.4   |
| REC 598   |                                     | 23.0mm Std. H/D | Inlet   | (x2) Flat Back, 1.5mm Seat                                                  | 18.9   |
| REC 582   |                                     | 23.0mm Std. H/D | Inlet   | (x2) Dished, 1.5mm Seat                                                     | 18.5   |
| REC 600   | Yamaha YZF750P,R & SP 1993 - 1998   | 24.5mm Std. H/D | Exhaust | (x2) Flat Back, 1.5mm Seat                                                  | 20.1   |
| REC 584   |                                     | 24.5mm Std. H/D | Exhaust | (x2) Dished, 1.5mm Seat                                                     | 21.3   |
| REC 652   | Yamaha YZF1000 Thunderace 1996 - 03 | 23.5mm Std. H/D | Inlet   | (x1) Flat Back                                                              | 19.3   |
| REC 651   |                                     | 23.5mm Std. H/D | Inlet   | (x2) Flat Back                                                              | 19.4   |
| REC 655   |                                     | 24.0mm          | Inlet   | (x1) Flat Back                                                              | 19.7   |
| REC 654   |                                     | 24.0mm          | Inlet   | (x2) Flat Back                                                              | 19.8   |
| REC 653   | Yamaha YZF1000 Thunderace 1996 - 03 | 25.0mm Std. H/D | Exhaust | (x2) Flat Back                                                              | 20.7   |
| REC 656   |                                     | 25.5mm          | Exhaust | (x2) Flat Back                                                              | 21.1   |
| REC 742   | Yamaha YZFR1 1998 - 2003            | 23.0mm Std. H/D | Inlet   | (x1) Flat Back, 1mm Seat                                                    | 16.1   |
| REC 741   |                                     | 23.0mm Std. H/D | Inlet   | (x2) Flat Back, 1mm Seat                                                    | 16.4   |
| REC 807   |                                     | 24.0mm          | Inlet   | (x2) Flat Back, 1mm Seat, <b>O/S H/D</b><br><b>+1mm</b>                     |        |
| REC 743   | Yamaha YZFR1 1998 - 2003            | 24.5mm Std. H/D | Exhaust | (x2) Flat Back, 1.5mm Seat                                                  | 22.2   |
| REC 824   | Yamaha YZFR1 2004 - 2007            | 23.5mm Std. H/D | Inlet   | (x1) 1.25mm Seat, Flat Back                                                 | 16.3   |
| REC 824/1 |                                     | 23.5mm Std. H/D | Inlet   | (x1) Flat Back, 1.2mm Seat, Inlet Material                                  | 15.8   |
| REC 823   |                                     | 23.5mm Std. H/D | Inlet   | (x2) Flat Back, 1.2mm Seat                                                  | 16.4   |
| REC 823/1 |                                     | 23.5mm Std. H/D | Inlet   | (x2) Flat Back, 1.2mm Seat<br>EN52 Inlet Material                           | 16.0   |
| REC 825   | Yamaha YZFR1 2004 - 2007            | 25.0mm Std. H/D | Exhaust | (x2) Flat Back, 1.58mm Seat                                                 | 21.1   |
| REC 877   | Yamaha YZFR1 2007 - On              | 25.0mm Std. H/D | Exhaust | (x2) Flat back, 1.58mm Seat<br>4 Valve Engine                               | 21.5   |
| REC 875   | Yamaha YZFR6 2006 - On              | 27.0mm Std. H/D | Inlet   | 1mm Seat, Flat Back, <b>O/E Titanium</b><br><b>16.1g</b>                    | 23.0   |
| REC 876   | Yamaha YZFR6 2006 - On              | 23.0mm Std. H/D | Exhaust | 1.5mm Seat, Flat Back<br>O/E Titanium 13.7g                                 | 19.8   |
| REC 755   | Yamaha YZFR6 1999 - 2005            | 25.0mm Std. H/D | Inlet   | 1mm Seat, Dished Back                                                       | 19.1   |
| REC 857   |                                     | 26.0mm          | Inlet   | Flat Back                                                                   |        |
| REC 756   | Yamaha YZFR6 1999 - 2005            | 22.0mm Std. H/D | Exhaust | 1.5mm Seat, Dished                                                          | 18.2   |
| REC 858   |                                     | 23.0mm          | Exhaust | Flat Back                                                                   |        |



| Part No.  | Application | Collets | Weight | To Suit Valve Part No. | Material |
|-----------|-------------|---------|--------|------------------------|----------|
| REC 10018 | 156         | LK6N    | 12.50  |                        | Titanium |
| REC 10017 | 156         | RK7N    | 13.10  | 53662, 53663           | Titanium |

## Austin Healey

| Part No.  | Application                        | Collets      | Weight | To Suit Valve Part No. | Material |
|-----------|------------------------------------|--------------|--------|------------------------|----------|
| REC 10312 | 100/4, 100/6 & 3000, Std. Retainer | Std. Collets |        |                        |          |

## BMW

| Part No.  | Application                                                                                                       | Collets    | Weight | To Suit Valve Part No.               | Material |
|-----------|-------------------------------------------------------------------------------------------------------------------|------------|--------|--------------------------------------|----------|
| REC 11078 | BMW Mini, R52, R53 (W11 Engine)<br>Spring Retainer <b>Single Groove Conversion</b>                                | SK6N       |        | REC 933, REC 934, REC 935            | EN24T    |
| REC 11187 | BMW Mini Cooper S Turbo 1600cc<br>& N18 Engine) 2007-2010 (N14                                                    | MK5 (Std.) |        | REC 942, REC 943 (Triple Groove)     | EN24T    |
| REC 11188 | BMW Mini Cooper S Turbo 1600cc<br>Spring Retainer (N14 & N18 Engine) 2007-2010<br><b>Single Groove Conversion</b> | SK5        |        | REC 942/1, REC 943/1 (Single Groove) | EN24T    |

## BRM

| Part No.  | Application                                    | Collets | Weight | To Suit Valve Part No. | Material |
|-----------|------------------------------------------------|---------|--------|------------------------|----------|
| REC 10059 | P142 V12, 3 Litre Spring Retainer<br>6mm Stems | KK6N    |        | 54088, 54089           | Titanium |

## Citroen

| Part No.  | Application             | Collets       | Weight | To Suit Valve Part No. | Material |
|-----------|-------------------------|---------------|--------|------------------------|----------|
| REC 10117 | Citroen Spring Retainer | 5/16" Collets |        | 54766, 54767           | EN24T    |

## Cosworth

| Part No.  | Application                                                  | Collets | Weight | To Suit Valve Part No.                                           | Material |
|-----------|--------------------------------------------------------------|---------|--------|------------------------------------------------------------------|----------|
| REC 10370 | BDG Spring Retainer<br>6mm Stem                              | LK6N    |        | 57102, 57103                                                     | Titanium |
| REC 10371 | BDG <b>Spring Platform</b>                                   | N/A     |        | 57102, 57103                                                     | EN24T    |
| REC 10020 | MAE 1100cc Spring Retainer                                   | 88G459  | 9.60   | REC275, REC 282 & REC 002 Springs                                | Titanium |
| REC 10388 | MAE 1100cc <b>Spring Platform</b><br>(to suit 0.500" Guides) | N/A     |        | REC 002 Springs                                                  | EN24T    |
| REC 11292 | DVF Spring Retainer                                          | PP0672  | 19.66  | REC761, REC 762, REC 765, REC 766,<br>REC 789, REC 906 & REC 907 | EN24T    |

## Coventry

| Part No.  | Application                               | Collets | Weight | To Suit Valve Part No. | Material |
|-----------|-------------------------------------------|---------|--------|------------------------|----------|
| REC 10162 | Climax 750cc Spring Retainer<br>6mm Stems | LK6N    |        | 54901, 54902           | EN24T    |
| REC 10161 | Climax 750cc Spring Retainer              |         |        | 54899, 54900           | EN24T    |
| REC 10113 | Climax FWA / FWE Spring Retainer          | 10823   |        | 5/16" Stem             | EN24T    |
| REC 11356 |                                           | PP0672  |        | 9/32" Stem             | EN24T    |
| REC 10083 | Climax V8 Spring Retainer                 |         |        | 53103, 53104           | EN24T    |
| REC 10277 | Climax FW750cc Spring Retainer            | LK7     |        | 56388 / 56389          | Titanium |

## Ferrari



| Part No.  | Application                                                            | Collets            | Weight | To Suit Valve Part No.             | Material |
|-----------|------------------------------------------------------------------------|--------------------|--------|------------------------------------|----------|
| REC 10031 | Ferrari 12 Cylinder Spring Retainer                                    | Std. Collets       |        | REC 821/1, REC 822/1               | EN24T    |
| REC 10030 | Ferrari 12 Cylinder Spring Retainer<br>Fitted Length +0.050"           | Std. Collets       |        |                                    | EN24T    |
| REC 11259 | Ferrari Dino, 246, 308 (2 Valve), 365<br>512BB & Boxer Spring Retainer | 11025 Std. Collets |        | REC 380, REC 381, REC 479, REC 480 | EN24T    |

## Ford

| Part No.  | Application                                                                                                     | Collets                            | Weight | To Suit Valve Part No.                                                                                      | Material |
|-----------|-----------------------------------------------------------------------------------------------------------------|------------------------------------|--------|-------------------------------------------------------------------------------------------------------------|----------|
| REC 10133 | Escort, Cortina & Capri Spring Retainer<br>Ford Pinto 2 Litre<br><b>Std. Springs</b>                            |                                    |        |                                                                                                             | EN24T    |
| REC 10134 | Escort, Cortina & Capri Spring Retainer<br>Ford Pinto 2 Litre (Supplied before 2011)<br><b>REC 004 Springs</b>  | 10823<br><b>Imperial Collet</b>    | 18.60  | REC 296, REC 297, REC 882/1<br>(Issue 2) To Identify<br><b>Check Groove Dia. 0.250"/0.248"</b>              | EN24T    |
| REC 10135 |                                                                                                                 | 10823<br><b>Imperial Collet</b>    | 10.60  | REC 296, REC 297, REC 882/1<br>(Issue 2) To Identify<br><b>Check Groove Dia. 0.250"/0.248"</b>              | Titanium |
| REC 10424 | Escort, Cortina & Capri Spring Retainer<br>Ford Pinto 2 Litre<br><b>REC 004 Springs</b>                         | RK8<br><b>Metric Collet</b>        |        | REC 296, REC 297, REC 882/1<br>(Issue 3) To Identify<br><b>Check Groove Dia. 0.245"/0.243"</b>              | EN24T    |
| REC 10451 |                                                                                                                 | RK8<br><b>Metric Collet</b>        |        | REC 296, REC 297, REC 882/1<br>(Issue 3) To Identify<br><b>Check Groove Dia. 0.245"/0.243"</b>              | Titanium |
| REC 10085 | Escort, Cortina, Capri, Fiesta Spring Retainer<br>Ford Cross-Flow (Std. 5/16" Stem)<br>REC 004 Springs          | REC "old style"<br>imperial Collet |        | REC 250, REC 251, REC 425                                                                                   | Titanium |
| REC 11355 | Escort, Cortina, Capri, Fiesta Spring Retainer<br>Ford Cross-Flow (Std. 5/16" Stem)<br>REC 002 Springs          | Std. Triple Groove<br>Collets      |        | REC 208W, REC 209W, REC 260<br>REC 261, REC 306, REC 307                                                    | EN24T    |
| REC 10020 | Escort, Cortina, Capri, Fiesta Spring Retainer<br>Ford Cross-Flow (9/32" Stem)                                  | 88G459                             |        | REC 247, REC 248, REC 265, REC 266<br>REC 292, REC 293                                                      | Titanium |
| REC 10303 | REC 002 Springs, REC 05 Guides 10460 Spring<br>Platforms                                                        | 88G459                             |        | REC 247, REC 248, REC 265, REC 266<br>REC 292, REC 293                                                      | EN24T    |
| REC 10460 | Escort, Cortina, Capri Fiesta Spring Platform<br>Ford Cross-Flow (9/32" Stem)<br>REC 002 Springs, REC 05 Guides | 88G459                             |        | REC 247, REC 248, REC 265, REC 266<br>REC 292, REC 293                                                      | EN24T    |
| REC 11256 | Ford Super Puma Spring Retainer 97 - 02                                                                         | SK6N                               |        | REC 902/1 & REC 903/1                                                                                       | EN24     |
| REC 11319 | Escort, Fiesta, Mondeo, Focus Spring Retainer<br>1800cc/2000cc Zetec Engine, Silver Top                         | SK6N                               |        | REC 696 & REC 697, Single Groove<br>Conversion from OE Single Groove                                        | EN24     |
| REC 10991 | Escort, Fiesta, Mondeo, Focus Spring Retainer<br>1800cc/2000cc Zetec R (Black<br>Top & ST170 Engine             | MK6N                               |        | Fitted Length +2.5mm (for more lift)<br>REC 920, REC 921, REC 922 & REC<br>923, Triple Groove, Std. Collets | EN24     |

## Honda

| Part No.  | Application                             | Collets | Weight | To Suit Valve Part No. | Material |
|-----------|-----------------------------------------|---------|--------|------------------------|----------|
| REC 10063 | CBR600FX 98-00 Inlet Spring Retainer    | SK4N    |        | REC 759/1              | EN24     |
| REC 10064 | CBR600FX 98-00 Exhaust Spring Retainer  | SK4N    |        | REC 760/1              | EN24     |
| REC 10087 | CBR600RR3 2003-on Spring Retainer       | SK4N    |        |                        | EN24     |
| REC 10073 | Honda Spring Retainer                   |         | 7.90   | 54210                  | Titanium |
| REC 10074 | Honda Spring Retainer<br>Length -0.100" |         | 10.10  | 54210                  | Titanium |
| REC 10077 | Honda Spring Retainer<br>Length -0.100" |         | 7.90   | 54210                  | Titanium |



| Part No. | Application                                                                | Collets      | Weight | Comments                            | Weight |
|----------|----------------------------------------------------------------------------|--------------|--------|-------------------------------------|--------|
| 10918    | Husqvarna TE 250cc/450cc, 2003 - 2004<br>Spring Retainer (Stem Dia. 4.5mm) | Std. Collets |        | REC 844, REC 845, REC 847 & REC 848 |        |

## Kawasaki

| Part No.  | Application                     | Collets      | Weight | To Suit Valve Part No.                      | Material |
|-----------|---------------------------------|--------------|--------|---------------------------------------------|----------|
| REC 10860 | ZX400 Spring Retainer           | Std. Collets |        | REC 587, REC 588, REC 627 & REC 628         | EN24T    |
| REC 10861 |                                 | SK4N         |        | REC 587/1, REC 588/1, REC 627/1 & REC 628/1 | EN24T    |
| REC 10126 | ZX6RR Spring Retainer           | SK4N         | 3.60   | REC 840/1, REC841/1                         | Titanium |
| REC 10125 |                                 | Std. Collets | 3.02   |                                             | Alloy    |
| REC 10082 | ZX6RR 2002-04 Spring Retainer   | SK4N         |        | REC 809/1, REC 810/1                        | EN24T    |
| REC 10537 | ZXR900 / ZXR750 Spring Retainer | Std. Collets |        | REC 550, REC 551, REC 006 Springs           | Titanium |
| REC 11494 | ZXR900 / ZXR750 Spring Platform | Std. Collets |        | REC 550, REC 551, REC 006 Springs           | EN24T    |
| REC 10105 | ZX10 Spring Retainer            | Std. Collets | 3.60   | 54706, 54708                                | Alloy    |

## Mini

| Part No.  | Application                                                                                                   | Collets             | Weight | To Suit Valve Part No.                              | Material |
|-----------|---------------------------------------------------------------------------------------------------------------|---------------------|--------|-----------------------------------------------------|----------|
| REC 10020 | Mini Spring Retainer<br>REC 002 Springs                                                                       | 88G459              | 9.60   | All REC Mini A-Series Valves                        | Titanium |
| REC 10303 | Mini Spring Platform<br>REC 002 Springs                                                                       | 88G459              |        | All REC Mini A-Series Valves                        | EN24T    |
| REC 10057 | Mini Spring Retainer<br>Isky Springs - Light Inner                                                            | 88G459              |        | All REC Mini A-Series Valves<br>(Check Springs)     | Titanium |
| REC 10302 |                                                                                                               | 88G459              |        | All REC Mini A-Series Valves<br>(Check Springs)     | EN24T    |
| REC 10107 | Mini Spring Retainer (6mm with<br>Shims-10034) REC 002 Springs                                                | SK6N                |        | REC 134, REC 135, REC 136                           | Titanium |
| REC 10060 |                                                                                                               | LK6N<br>10034 Shims |        | REC 134/1, REC 135/1, REC 136/1<br>REC 137, REC 138 | Titanium |
| REC 10460 | Mini Spring Platform<br>to suit 0.471" Guides                                                                 | N/A                 |        | REC 002 Springs                                     | EN24T    |
| REC 11078 | BMW Mini, R52, R53 (W11 Engine)<br>Spring Retainer Single<br>Groove Conversion                                | SK6N                |        | REC 933, REC 934, REC 935                           | EN24T    |
| REC 11187 | BMW Mini Cooper S Turbo 1600cc Spring<br>Retainer (N14 &<br>N18 Engine) 2007-2010                             | MK5 (Std.)          |        | REC 942, REC 943 (Triple Groove)                    | EN24T    |
| REC 11188 | BMW Mini Cooper S Turbo 1600cc Spring<br>Retainer (N14 & N18<br>Engine) 2007-2010 Single<br>Groove Conversion | SK5                 |        | REC 942/1, REC 943/1 (Single Groove)                | EN24T    |

## MG

| Part No.  | Application                                                                                                 | Collets       | Weight | To Suit Valve Part No. | Material |
|-----------|-------------------------------------------------------------------------------------------------------------|---------------|--------|------------------------|----------|
| REC 10532 | MGB 1800cc 4 Cyl. 1967-80 (Eng. 18V)<br>Spring Retainer with Shim (10435)<br>REC 002 Springs, REC 57 Guides | KK7N<br>10435 |        | REC 793, REC 794       | EN24T    |

## Rover

| Part No.  | Application                                                                                        | Collets | Weight | To Suit Valve Part No.                                    | Material |
|-----------|----------------------------------------------------------------------------------------------------|---------|--------|-----------------------------------------------------------|----------|
| REC 10079 | K Series, Piper Spring, Hydraulic Cam<br>Spring Retainer VSSK<br>Single Spring or VDSK Duel Spring | SK6N    |        | 1800cc Engine<br>In. 3.420"/86.9mm, Ex. 3.435"/87.2mm     | Titanium |
| REC 11135 | K Series, Piper Spring, Solid Cam<br>Spring Retainer VSSK<br>Single Spring or VDSK Duel Spring     | SK6N    | 6.63   | 1800cc Engine<br>In. 3.440"/87.4mm, Ex.<br>3.460"/87.90mm | Titanium |



| Part No.  | Application                           | Collets           | Weight | To Suit Valve Part No. | Material |
|-----------|---------------------------------------|-------------------|--------|------------------------|----------|
| REC 10097 | Turbo Spring Retainer<br>Piper Spring | Yoshimora Collets | 10.50  | 50849, 50850           | Titanium |

## Suzuki (PTO)

| Part No.         | Application                                        | Collets      | Weight | To Suit Valve Part No.                       | Material     |
|------------------|----------------------------------------------------|--------------|--------|----------------------------------------------|--------------|
| <b>REC 10144</b> | GSXR600 2001 - 2003 Spring Retainer                | Std. Collets | 4.52   |                                              | <b>Alloy</b> |
| REC 10200        | GSXR600 2001 - 2003 Spring Retainer<br>Lightweight | Std. Collets | 4.40   | REC 803, REC 804                             | Titanium     |
| REC 10062        | GSXR600 2001 - 2003 Spring Retainer<br>Std. Shape  | SK4N         | 7.00   | REC 803/1, REC 804/1, REC 811/1<br>REC 812/1 | Titanium     |
| REC 10199        | GSXR600 2001 - 2003 Spring Retainer<br>Lightweight | SK4N         | 4.60   | REC 799/1, REC 800/1, REC 801/1<br>REC 802/1 | Titanium     |

|           |                                                  |        |      |                  |          |
|-----------|--------------------------------------------------|--------|------|------------------|----------|
| REC 10218 | GSXR600 2004 - on Spring Retainer<br>Lightweight | SK4.5N | 4.40 | REC 870, REC 871 | Titanium |
| REC 10217 | GSXR600 2004 - on Spring Retainer<br>Std. Shape  | SK4.5N | 7.00 | REC 870, REC 871 | Titanium |

|                  |                                                    |              |      |                                    |              |
|------------------|----------------------------------------------------|--------------|------|------------------------------------|--------------|
| <b>REC 10144</b> | GSXR750 2001 - 2004 Spring Retainer                | Std. Collets | 4.52 |                                    | <b>Alloy</b> |
| REC 10200        | GSXR750 2001 - 2004 Spring Retainer<br>Lightweight | Std. Collets | 4.40 | REC 799, REC 800, REC 801, REC 802 | Titanium     |

|           |                                                    |      |      |                                                       |          |
|-----------|----------------------------------------------------|------|------|-------------------------------------------------------|----------|
| REC 10062 | GSXR750 2001 - 2004 Spring Retainer<br>Std. Shape  | SK4N | 7.00 | REC 799/1, REC 800/1, REC 801/1<br>REC 802/1, REC 865 | Titanium |
| REC 10199 | GSXR750 2001 - 2004 Spring Retainer<br>Lightweight | SK4N | 4.60 | REC 799/1, REC 800/1, REC 801/1<br>REC 802/1, REC 865 | Titanium |

|           |                                                     |        |      |                      |          |
|-----------|-----------------------------------------------------|--------|------|----------------------|----------|
| REC 10218 | GSXR750 K5 2005 - on Spring Retainer<br>Lightweight | SK4.5N | 4.40 | REC 861/1, REC 862/1 | Titanium |
| REC 10217 | GSXR750 K5 2005 - on Spring Retainer<br>Std. Shape  | SK4.5N | 7.00 | REC 861/1, REC 862/1 | Titanium |

|           |                                                     |              |      |                                                       |              |
|-----------|-----------------------------------------------------|--------------|------|-------------------------------------------------------|--------------|
| REC 10144 | GSXR1000 2001 - 2004 Spring Retainer                | Std. Collets | 4.52 |                                                       | <b>Alloy</b> |
| REC 10200 | GSXR1000 2001 - 2004 Spring Retainer<br>Lightweight | Std. Collets | 4.40 | REC 799, REC 800, REC 801, REC 802                    | Titanium     |
| REC 10062 | GSXR1000 2001 - 2004 Spring Retainer<br>Std. Shape  | SK4N         | 7.00 | REC 799/1, REC 800/1, REC 801/1<br>REC 802/1, REC 865 | Titanium     |
| REC 10199 | GSXR1000 2001 - 2004 Spring Retainer<br>Lightweight | SK4N         | 4.60 | REC 799/1, REC 800/1, REC 801/1<br>REC 802/1, REC 865 | Titanium     |

|           |                                                      |        |      |                      |          |
|-----------|------------------------------------------------------|--------|------|----------------------|----------|
| REC 10218 | GSXR1000 K5 2005 - on Spring Retainer<br>Lightweight | SK4.5N | 4.40 | REC 861/1, REC 862/1 | Titanium |
| REC 10217 | GSXR1000 K5 2005 - on Spring Retainer<br>Std. Shape  | SK4.5N | 7.00 | REC 861/1, REC 862/1 | Titanium |

|           |                       |        |      |               |       |
|-----------|-----------------------|--------|------|---------------|-------|
| REC 10054 | Ignas Spring Retainer | SK5.5N | 6.40 | 54038, 540391 | EN24T |
|-----------|-----------------------|--------|------|---------------|-------|

## Triumph



| Part No.  | Application                                                   | Collets      | Weight | To Suit Valve Part No. | Material |
|-----------|---------------------------------------------------------------|--------------|--------|------------------------|----------|
| REC 10020 | Triumph TR2, TR3A, TR4, TR4A Spring Retainer, REC 002 Springs | 88G459       | 9.60   | REC 546, REC547        | Titanium |
| REC 10303 |                                                               | 88G459       |        | REC 546, REC547        | EN24T    |
| REC 10020 | Triumph TR6 1969-76 Spring Retainer REC 002 Springs           | 88G459       | 9.60   | REC 548, REC549        | Titanium |
| REC 10303 |                                                               | 88G459       |        | REC 548, REC549        | EN24T    |
| REC 10178 | 95513 Cylinder Spring Retainer                                | SK5N         |        | 55261                  | EN24T    |
| REC 10177 | 95513 Cylinder                                                | Std. Collets |        |                        | EN24T    |

## TVR

| Part No. | Application                                                                                             | Collets | Weight | To Suit Valve Part No. | Material |
|----------|---------------------------------------------------------------------------------------------------------|---------|--------|------------------------|----------|
| 10424    | 350, 390, 400, 420, 450, Griffith Chimaera (Rover 3500cc V8) 1983-2001 Spring Retainer, REC 004 Springs | RK8     |        | REC 508                | EN24T    |
| 10451    |                                                                                                         | RK8     |        | REC 509                | Titanium |

## Vauxhall

| Part No.  | Application                                                            | Collets | Weight | To Suit Valve Part No.                                          | Material |
|-----------|------------------------------------------------------------------------|---------|--------|-----------------------------------------------------------------|----------|
| REC 10129 | 1400, 1600 Corsa Spring Retainer                                       | MK6N    |        | REC 661, REC 662                                                | Titanium |
| REC 10036 | XE 2000 Group A (Std. Stem) Spring Retainer, REC 002 Springs           | MK7N    |        | REC 458, REC 459                                                | Titanium |
| REC 10037 | XE 2000 Group A (Std. Stem) Spring Retainer, Isky Springs Light Inner  | MK7N    |        | REC 458, REC 459                                                | Titanium |
| REC 10019 | XE 2000 Group A (6mm Stem) Spring Retainer, REC 002 springs            | SK6N    | 8.40   | REC 777, REC 778, REC 779, REC 780<br>REC 781, REC 782, REC 798 | Titanium |
| REC 10023 | XE 2000 Group A (6mm Stem) Spring Retainer, Isky Springs - Light Inner | SK6N    | 8.50   | REC 777, REC 778, REC 779, REC 780<br>REC 781, REC 782, REC 798 | Titanium |

## Yamaha

| Part No.  | Application            | Collets | Weight | To Suit Valve Part No. | Material |
|-----------|------------------------|---------|--------|------------------------|----------|
| REC 10065 | FZR400 Spring Retainer | SK4N    |        | REC 623/1, REC624/1    | EN24T    |

## A-Series Engine

# Valves Collets



| Part No. | Application                          | Groove Radius | Stem  | Groove Diameter | Design |
|----------|--------------------------------------|---------------|-------|-----------------|--------|
| 88G459   | Mini - <b>7 Deg.</b> , Single Groove | 0.062"        | 9/32" | 0.218"/0.216"   | Turned |

## BRM

| Part No. | Application                                  | Groove Radius | Stem  | Groove Diameter | Design |
|----------|----------------------------------------------|---------------|-------|-----------------|--------|
| 10826    | BRM P68, P56 & P101 - <b>7.5 Deg.</b> Single | 0.062"        | 5/16" | 0.251"/0.249"   | Turned |

## Cosworth

(Please Note: If using REC Retainers and Springs use Mini 88G459 Collets)

| Part No. | Application                                      | Groove Radius | Stem  | Groove Diameter | Design |
|----------|--------------------------------------------------|---------------|-------|-----------------|--------|
| PP0672   | all 9/32" Valves - <b>5 Deg.</b> , Single Groove | 0.062"        | 9/32" | 0.218"/0.216"   | Turned |

## Ferrari

| Part No. | Application                                      | Groove Radius | Stem  | Groove Diameter | Design |
|----------|--------------------------------------------------|---------------|-------|-----------------|--------|
| 11025    | Dino, 246, 308, 365, 512BB & Boxer <b>7 Deg.</b> | Square Groove | 8.0mm | 0.268"/0.266"   | Turned |

## Ford / Lotus / Jaguar

|       |                                                                                                                    |        |       |               |                                 |        |
|-------|--------------------------------------------------------------------------------------------------------------------|--------|-------|---------------|---------------------------------|--------|
| 10823 | O/E Part - Ford Cross-Flow<br>O/E Part - Lotus TwinCam - <b>5 Deg.</b><br>O/E Part - Jaguar 3.4, 3.6, 4.2 (6 Cyl.) | 0.062" | 5/16" | 0.250"/0.248" | LK1808<br>X026E0045Z<br>EBC2997 | Turned |
|-------|--------------------------------------------------------------------------------------------------------------------|--------|-------|---------------|---------------------------------|--------|

## G&S

| Part No.     | Application                                                            | Groove Radius | Stem  | Groove Diameter | Design |
|--------------|------------------------------------------------------------------------|---------------|-------|-----------------|--------|
| 10734        | Honda <b>7mm</b> Stem - <b>7 Deg.</b> , Single                         | 0.050"        | 7.0mm | 0.224"/0.222"   | Turned |
| 11089        | <b>7mm - 7 Deg.</b> , Single Groove<br><b>Triple Groove Conversion</b> | 0.050"        | 7.0mm | 0.232"/0.228"   | Turned |
| P485F14355/5 | <b>3/8" - 5 Deg.</b> , Single Groove                                   | 0.062"        | 3/8"  | 0.311"/0.309"   | Turned |

## TRW (SK Design)

| Part No. | Application             | Groove Radius | Stem  | Groove Diameter | Design |
|----------|-------------------------|---------------|-------|-----------------|--------|
| SK4N     | 5 Degree, Single Groove | 0.030"        | 4.0mm | 0.118"/0.114"   | Forged |
| SK4.5N   |                         | 0.030"        | 4.5mm | 0.138"/0.134"   | Forged |
| SK5N     |                         | 0.030"        | 5.0mm | 0.157"/0.153"   | Forged |
| SK5.5N   |                         | 0.030"        | 5.5mm | 0.177"/0.173"   | Forged |
| SK6N     |                         | 0.030"        | 6.0mm | 0.197"/0.193"   | Forged |

## TRW (RK Design)

|        |                         |        |        |               |        |
|--------|-------------------------|--------|--------|---------------|--------|
| RK6N   | 5 Degree, Single Groove | 0.062" | 6.0mm  | 0.165"/0.161" | Forged |
| RK7N   |                         | 0.062" | 7.0mm  | 0.205"/0.200" | Forged |
| RK8N   |                         | 0.062" | 8.0mm  | 0.244"/0.239" | Forged |
| RK9N   |                         | 0.062" | 9.0mm  | 0.284"/0.276" | Forged |
| RK9.5N |                         | 0.062" | 3/8"   | 0.304"/0.296" | Forged |
| RK10N  |                         | 0.062" | 10.0mm | 0.323"/0.315" | Forged |

## TRW (LK Design)

|        |                         |        |       |               |        |
|--------|-------------------------|--------|-------|---------------|--------|
| LK5N   | 7 Degree, Single Groove | 0.050" | 5.0mm | 0.153"/0.150" | Forged |
| LK5.5N |                         | 0.050" | 5.5mm | 0.173"/0.169" | Forged |
| LK6N   |                         | 0.050" | 6.0mm | 0.193"/0.189" | Forged |
| LK7N   |                         | 0.050" | 7.0mm | 0.232"/0.228" | Forged |

## TRW (KK Design)

|       |                         |        |        |               |        |
|-------|-------------------------|--------|--------|---------------|--------|
| KK6N  | 7 Degree, Single Groove | 0.050" | 6.0mm  | 0.193"/0.189" | Forged |
| KK7N  |                         | 0.050" | 7.0mm  | 0.232"/0.228" | Forged |
| KK8N  |                         | 0.050" | 8.0mm  | 0.271"/0.266" | Forged |
| KK9N  |                         | 0.050" | 9.0mm  | 0.311"/0.303" | Forged |
| KK12N |                         | 0.050" | 12.0mm | 0.429"/0.421" | Forged |

# Valves Collets



## TRW (MK Design)

| Part No. | Application             | Collets                  | Weight | To Suit Valve Part No. | Material |
|----------|-------------------------|--------------------------|--------|------------------------|----------|
| MK6N     | 7 Degree, Triple Groove | 0.020"<br>0.079" Centers | 6.0mm  | 0.183"/0.178"          | Forged   |
| MK7N     |                         | 0.030"<br>0.106" Centers | 7.0mm  | 0.208"/0.204"          | Forged   |
| MK8N     |                         | 0.030"<br>0.106" Centers | 8.0mm  | 0.248"/0.242"          | Forged   |

## A-Series Engine

# Valves Guides



| Part No. | Application        | Material | O/D    | Stem Dia. | Length | Circlip Grooves |
|----------|--------------------|----------|--------|-----------|--------|-----------------|
| REC 01   | 850cc/998cc/1098cc | Colsibro | 0.471" | 0.2818"   | 1.687" | 2               |

|        |                                                   |          |        |         |        |   |
|--------|---------------------------------------------------|----------|--------|---------|--------|---|
| REC 01 | Cooper 'S' (Mk1) 1275cc Engine<br>9/32" Stems     | Colsibro | 0.471" | 0.2818" | 1.687" | 2 |
| REC 01 | Cooper 'S' Mk2 12G940 Head Casting<br>9/32" Stems | Colsibro | 0.471" | 0.2818" | 1.687" | 2 |
| REC 58 | Cooper 'S' Mk2 12G940 Head Casting<br>6mm Stems   | Colsibro | 0.471" | 0.2818" | 1.687" | 2 |

## Cosworth

| Part No. | Application                                      | Material | O/D    | Stem Dia. | Length | Circlip Grooves |
|----------|--------------------------------------------------|----------|--------|-----------|--------|-----------------|
| REC 05   | MAE 1000cc, 1100cc<br>Push-Rod Engine 9/32" Stem | Colsibro | 0.502" | 0.2818"   | 1.850" | 2               |

|        |                   |          |        |         |        |   |
|--------|-------------------|----------|--------|---------|--------|---|
| REC 59 | BDG<br>Stem 9/32" | Colsibro | 0.513" | 0.2818" | 1.558" | 2 |
|--------|-------------------|----------|--------|---------|--------|---|

|        |                                           |          |        |         |        |   |
|--------|-------------------------------------------|----------|--------|---------|--------|---|
| REC 51 | RS500 YB Sierra, Std. Inlet<br>Stem 7mm   | Colsibro | 0.514" | 0.2761" | 1.681" | 1 |
| REC 52 | RS500 YB Sierra, Std. Exhaust<br>8mm Stem | Colsibro | 0.514" | 0.3154" | 1.732" | 1 |

## Ford

| Part No. | Application                                       | Material | O/D    | Stem Dia. | Length | Circlip Grooves |
|----------|---------------------------------------------------|----------|--------|-----------|--------|-----------------|
| REC 03   | Anglia, Capri, Cortina, Corsair<br>Pre Cross-Flow | Colsibro | 0.502" | 0.3130"   | 1.850" | 1               |

|        |                                                                                               |          |        |         |        |   |
|--------|-----------------------------------------------------------------------------------------------|----------|--------|---------|--------|---|
| REC 03 | Cortina, Capri, Escort, Fiesta<br>(5/16" Stem) Cross-Flow Engine                              | Colsibro | 0.502" | 0.3130" | 1.850" | 1 |
| REC 05 | Cortina, Capri, Escort, Fiesta<br>(9/32" Stem) Cross-Flow Engine<br>Use 10460 Spring Platform | Colsibro | 0.502" | 0.2818" | 1.850" | 2 |

|        |                                        |          |        |         |        |   |
|--------|----------------------------------------|----------|--------|---------|--------|---|
| REC 12 | Cortina, Capri, Escort<br>Engine Pinto | Colsibro | 0.474" | 0.3182" | 1.975" | 1 |
|--------|----------------------------------------|----------|--------|---------|--------|---|

|        |                                                |          |         |         |       |   |
|--------|------------------------------------------------|----------|---------|---------|-------|---|
| REC 08 | Sierra, Escort, Fiesta, Orion<br>C.V.H. Engine | Colsibro | 0.5346" | 0.3182" | 2.545 | 0 |
|--------|------------------------------------------------|----------|---------|---------|-------|---|

|        |                                                             |          |         |         |       |   |
|--------|-------------------------------------------------------------|----------|---------|---------|-------|---|
| REC 09 | Sierra, Escort, Fiesta, Orion<br>C.V.H. Engine (9/32" Stem) | Colsibro | 0.5346" | 0.2818" | 2.545 | 0 |
|--------|-------------------------------------------------------------|----------|---------|---------|-------|---|

|        |                                |          |        |         |        |   |
|--------|--------------------------------|----------|--------|---------|--------|---|
| REC 24 | YB Sierra RS2000<br>Stem 9/32" | Colsibro | 0.514" | 0.2818" | 1.690" | 2 |
|--------|--------------------------------|----------|--------|---------|--------|---|

## Jaguar



| Part No. | Application                                         | Material | O/D    | Stem Dia. | Length | Circlip Grooves |  |
|----------|-----------------------------------------------------|----------|--------|-----------|--------|-----------------|--|
| REC 31   | 3.4, 3.6, 3.8 & 4.2 Litre, Straight 6<br>5/16" Stem | Colsibro | 0.502" | 0.3130"   | 1.500" | 1               |  |

## Lotus

| Part No. | Application                   | Material | O/D    | Stem Dia. | Length | Circlip Grooves |  |
|----------|-------------------------------|----------|--------|-----------|--------|-----------------|--|
| REC 06   | Twin Cam                      | Colsibro | 0.502" | 0.3130"   | 1.500" | 1               |  |
| REC 07   | Twin Cam<br>Guide +0.003" O/S | Colisbro | 0.505" | 0.3130"   | 1.500" | 1               |  |
| REC 54   | Elise                         | Colisbro | 0.388" | 0.2367"   | 1.250" | N/A             |  |

## MG

| Part No. | Application                            | Material | O/D    | Stem Dia. | Length | Circlip Grooves |  |
|----------|----------------------------------------|----------|--------|-----------|--------|-----------------|--|
| REC 01   | Midget<br>Stem Std.                    | Colsibro | 0.471" | 0.2818"   | 1.687" | 2               |  |
| REC 25   | MGB 1800cc, 4 Cylinder<br>Valves Pinto | Colsibro | 0.564" | 0.3182"   | 2.250" | 2               |  |
| REC 57   | MGB 1800cc, 4 Cylinder<br>7mm Stem     | Colsibro | 0.564" | 0.2818"   | 2.250" | 2               |  |
| REC 36   | MGB / MGB V8                           | Colsibro |        |           |        |                 |  |

## Rover

| Part No. | Application  | Material | O/D    | Stem Dia. | Length | Circlip Grooves |  |
|----------|--------------|----------|--------|-----------|--------|-----------------|--|
| REC 36   | Rover V8 SDI | Colsibro | 0.5955 | 0.3425    | 1.896  | N/A             |  |
| REC 54   | 'K' Series   | Colsibro | 0.388  | 0.2362    | 1.25   | N/A             |  |

## Vauxhall

| Part No. | Application                                                           | Material | O/D     | Stem Dia. | Length | Circlip Grooves |                        |
|----------|-----------------------------------------------------------------------|----------|---------|-----------|--------|-----------------|------------------------|
| REC 42   | Astra, Belmont, Nova, Corsa, Cavalier<br>2 Valve Engine, 7.01mm Stems | Colsibro | 0.435"  | 0.2776"   | 1.790" | 2               | REC 553<br>REC 648     |
| REC 38   | Astra / Cavalier 2000cc<br>2 Valve Engine, 7.00mm Stems               | Colsibro | 0.513"  | 0.2740"   | 1.654" |                 | REC 441<br>REC 688     |
| REC 39   | Astra / Cavalier 2000cc (XE Engine)<br>4 Valve Engine, 7.00mm Stems   | Colsibro | 0.4350" | 0.2740"   | 1.790" |                 | REC 458/5<br>REC 442/3 |
| REC 62   | Astra / Cavalier 2000cc (XE Engine)<br>4 Valve Engine, 6.00mm Stems   | Colsibro | 0.4350" | 0.2367"   | 1.790" |                 | REC 661/2              |
| REC 55   | Ectotec 2000cc (Short)<br>4 Valve Engine, 6.00mm Stems                | Colsibro | 0.3960" | 0.2367"   | 1.377" | N/A             | REC 815<br>REC 816     |
| REC 56   | Ectotec 1400cc, 1600cc, 2000cc (Long)<br>4 Valve Engine, 6.00mm Stems | Colsibro | 0.3960" | 0.2367"   | 1.775" | N/A             |                        |

## A-Series Engine

# Valves Springs



| Part No. | Application                                          | Fitted | Spring Rate (Assembled) |  |
|----------|------------------------------------------------------|--------|-------------------------|--|
| REC 002  | 850cc/998cc/1098cc                                   | 1.300" | 85 Lb/In.               |  |
| REC 002  | Cooper 'S' (Mk1) 1275cc Engine                       | 1.300" | 85 Lb/In.               |  |
| REC 002  | Cooper 'S' Mk2 12G940 Head Casting 6mm / 9/32" Stems | 1.300" | 85 Lb/In.               |  |

## Ford

| Part No. | Application                                         | Fitted | Spring Rate (Assembled) |  |
|----------|-----------------------------------------------------|--------|-------------------------|--|
| REC 004  | Cortina / Capri / Escort / Fiesta Cross-Flow Engine |        | 126 Lb/In.              |  |
| REC 004  | Cortina / Capri / Escort Pinto Engine               |        | 126 Lb/In.              |  |

## Kawasaki

| Part No. | Application     | Fitted | Spring Rate (Assembled) |  |
|----------|-----------------|--------|-------------------------|--|
| REC 006  | ZXR900 / ZXR750 | 1.300" | 60 Lb/In.               |  |

## Vauxhall

| Part No. | Application                                                | Fitted | Spring Rate (Assembled) |  |
|----------|------------------------------------------------------------|--------|-------------------------|--|
| REC 002  | Astra / Nova / Corsa / Cavalier 4 Valve Engines, 6mm Stems | 1.300" | 85 Lb/In.               |  |

## Technical Valve Spring Data

REC 002 (Outer Spring)

Free Length: 1.576"      Outer      1.100"  
 Installed Height: 1.300"      Inner      0.816"  
 Spring Rate: 58 Lb/In.

REC 002 (Inner Spring)

Free Length: 1.425"      Outer      0.816"  
 Installed Height: 1.300"      Inner      0.606"  
 Spring Rate: 27 Lb/In.

REC 004 (Outer Spring)

Free Length: 1.965"      Outer      1.210"  
 Installed Height: 1.300"      Inner      0.926"  
 Spring Rate: 82 Lb/In.

REC 004 (Inner Spring)

Free Length: 1.514"      Outer      0.926"  
 Installed Height: 1.300"      Inner      0.686"  
 Spring Rate: 44 Lb/In.

REC 006 (Single Spring)

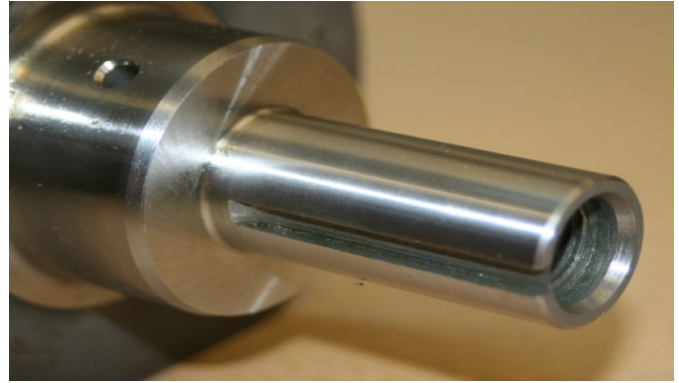
Free Length: 1.562" / 39.69mm      Outer      0.879" / 22.33mm  
 Installed Height: 1.300" / 33.02mm  
 Spring Rate: 60 Lb/In. / 266.9N

# Crankshafts

## Sprite and Mini Forged EN40B Crankshafts



All our crankshafts are manufactured from EN40B Steel, which are forged in specially modified dies to give a better forged crankshaft than was originally made. Some of the improvements such as the counter balance weights increased to give better engine harmonics. Other options available are: cross drilling, removal of primary gear slot and different flywheel drilling can also be done on request. Other slight modifications such as the harmonic balancer. Keyway increased in length and lightening of the big ends. Various strokes can be achieved as at the forging stage extra material was added to the big ends, to allow strokes ranging from 76mm to 86.2mm.



# GearBox Clusters

## Sprite 'Dog' Gear Clusters



These replacement gearbox clusters fit into standard Sprite gearbox casings and come complete with the following parts:



### REC 2000

4 speed (3 dog selection)

New Gearbox Mainshaft

New Layshaft

New Gears (1st to 4th )

New Specially Designed Quaff Dog's

New Reverse Idler Gear

New Gear Selectors



### REC 2001

4 speed (4 dog selection)

New Gearbox Mainshaft

New Layshaft

New Gears (1st to 4th )

New Specially Designed Quaff Dog's

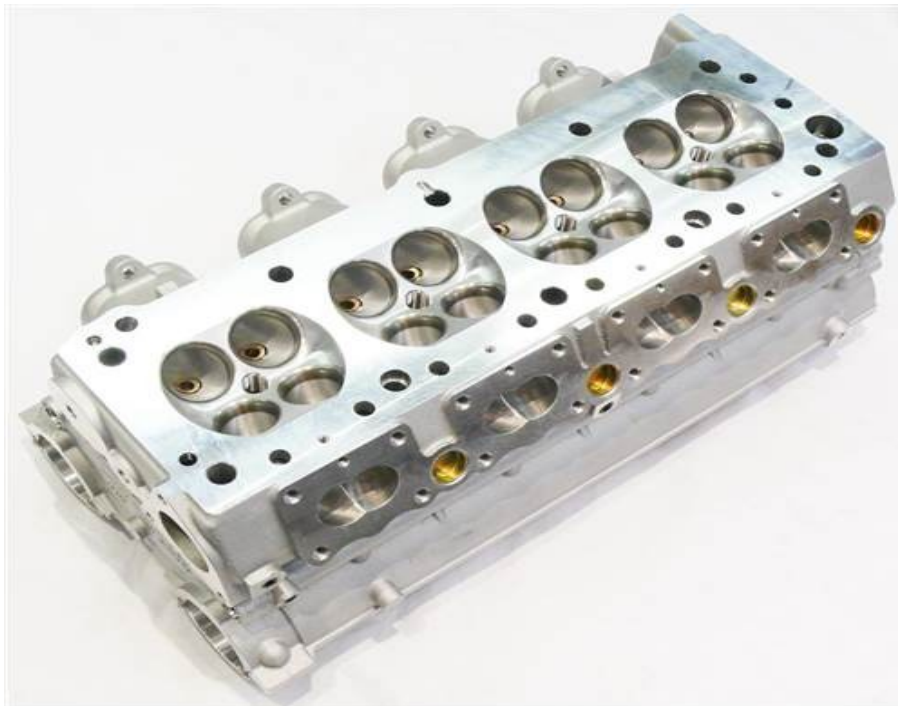
New Reverse Idler Gear

New Gear Selectors



# Cylinder Heads

## REC 2002 Genuine Cosworth Sierra YB (2 Wheel Drive) Cylinder Head





# Quick Reference: Valve Dimensions

| Part No.  | Groove Type (see Diag.) | Material | Hardened Tip | Head Dia | Length | Stem   |
|-----------|-------------------------|----------|--------------|----------|--------|--------|
| REC 588   | Single Groove - Type 5  | 1.4882   | NiII         | 0.748    | 3.361  | 0.1565 |
| REC 588/1 | Single Groove - Type 5  | 1.4882   | NiII         | 0.748    | 3.361  | 0.1565 |
| REC 628   | Single Groove - Type 5  | 1.4882   | NiII         | 0.748    | 3.361  | 0.1565 |
| REC 628/1 | Single Groove - Type 5  | 1.4882   | NiII         | 0.748    | 3.361  | 0.1565 |
| REC 592   | Single Groove - Type 5  | 1.4882   | Stellite Tip | 0.748    | 3.478  | 0.1560 |
| REC 624   | Single Groove - Type 5  | 1.4882   | Stellite Tip | 0.748    | 3.478  | 0.1560 |
| REC 624/1 | Single Groove - Type 5  | 1.4882   | Stellite Tip | 0.748    | 3.478  | 0.1560 |
| REC 718   | Single Groove - Type 5  | 1.4882   | Stellite Tip | 0.758    | 3.042  | 0.1770 |
| REC 450   | Single Groove - Type 5  | 1.4882   | Stellite Tip | 0.787    | 3.153  | 0.1953 |
| REC 732   | Single Groove - Type 5  | 1.4882   | Stellite Tip | 0.787    | 3.345  | 0.1560 |
| REC 619   | Single Groove - Type 5  | 1.4882   | NiII         | 0.822    | 3.453  | 0.1765 |
| REC 621   | Single Groove - Type 5  | 1.4882   | Stellite Tip | 0.825    | 3.435  | 0.1565 |
| REC 626   | Single Groove - Type 5  | 1.4882   | Stellite Tip | 0.825    | 3.435  | 0.1565 |
| REC 591   | Single Groove - Type 5  | 1.4882   | Stellite Tip | 0.864    | 3.470  | 0.1570 |
| REC 623   | Single Groove - Type 5  | 1.4882   | Stellite Tip | 0.864    | 3.470  | 0.1570 |
| REC 623/1 | Single Groove - Type 5  | 1.4882   | Stellite Tip | 0.864    | 3.470  | 0.1570 |
| REC 604   | Single Groove - Type 5  | 1.4882   | NiII         | 0.866    | 3.113  | 0.1570 |
| REC 604/1 | Single Groove - Type 5  | 1.4882   | NiII         | 0.866    | 3.128  | 0.1570 |
| REC 736   | Single Groove - Type 5  | 1.4882   | NiII         | 0.866    | 3.128  | 0.1570 |
| REC 736/1 | Single Groove - Type 5  | 1.4882   | NiII         | 0.866    | 3.128  | 0.1570 |
| REC 587   | Single Groove - Type 5  | 1.4882   | NiII         | 0.866    | 3.336  | 0.1570 |
| REC 587/1 | Single Groove - Type 5  | 1.4882   | NiII         | 0.866    | 3.336  | 0.1570 |
| REC 627   | Single Groove - Type 5  | 1.4882   | NiII         | 0.866    | 3.336  | 0.1570 |
| REC 627/1 | Single Groove - Type 5  | 1.4882   | NiII         | 0.866    | 3.336  | 0.1570 |
| REC 804   | Single Groove - Type 5  | 1.4882   | NiII         | 0.866    | 3.580  | 0.1560 |
| REC 804/1 | Single Groove - Type 5  | 1.4882   | NiII         | 0.866    | 3.580  | 0.1560 |
| REC 812/1 | Single Groove - Type 5  | 1.4882   | NiII         | 0.866    | 3.580  | 0.1560 |
| REC 632   | Single Groove - Type 5  | 1.4882   | NiII         | 0.866    | 3.636  | 0.1765 |
| REC 756   | Single Groove - Type 5  | 1.4882   | NiII         | 0.866    | 3.696  | 0.1565 |
| REC 843   | Single Groove - Type 5  | 1.4882   | NiII         | 0.866    | 3.800  | 0.1760 |
| REC 871   | Single Groove - Type 5  | 1.4882   | NiII         | 0.866    | 3.800  | 0.1760 |
| REC 746   | Single Groove - Type 5  | 1.4882   | NiII         | 0.866    | 3.835  | 0.1760 |
| REC 350   | Single Groove - Type 5  | 1.4882   | Stellite Tip | 0.866    | 3.895  | 0.1960 |
| REC 349   | Single Groove - Type 5  | 1.4882   | Stellite Tip | 0.866    | 3.966  | 0.1960 |
| REC 731   | Single Groove - Type 5  | 1.4882   | Stellite Tip | 0.883    | 3.323  | 0.1570 |
| REC 717   | Single Groove - Type 5  | 1.4882   | Stellite Tip | 0.885    | 3.042  | 0.1770 |
| REC 685   | Single Groove - Type 5  | 1.4882   | Stellite Tip | 0.886    | 3.772  | 0.2150 |
| REC 449   | Single Groove - Type 5  | 1.4882   | Stellite Tip | 0.887    | 3.208  | 0.1960 |
| REC 810/1 | Single Groove - Type 5  | 1.4882   | NiII         | 0.890    | 3.460  | 0.1565 |
| REC 841/1 | Single Groove - Type 5  | 1.4882   | NiII         | 0.890    | 3.520  | 0.1570 |
| REC 658   | Single Groove - Type 5  | 1.4882   | NiII         | 0.891    | 3.860  | 0.1570 |
| REC 658/1 | Single Groove - Type 5  | 1.4882   | NiII         | 0.891    | 3.860  | 0.1571 |
| REC 512   | Single Groove - Type 5  | 1.4882   | NiII         | 0.906    | 3.562  | 0.1768 |
| REC 742   | Single Groove - Type 5  | 1.4882   | NiII         | 0.906    | 3.568  | 0.1570 |
| REC 583   | Single Groove - Type 5  | 1.4882   | NiII         | 0.906    | 3.582  | 0.1765 |
| REC 599   | Single Groove - Type 5  | 1.4882   | NiII         | 0.906    | 3.582  | 0.1765 |

| Part No.  | Groove Type (see Diag.) | Material | Hardened Tip | Head Dia | Length | Stem   |
|-----------|-------------------------|----------|--------------|----------|--------|--------|
| REC 511   | Single Groove - Type 5  | 1.4882   | Nil          | 0.906    | 3.616  | 0.1768 |
| REC 741   | Single Groove - Type 5  | 1.4882   | Nil          | 0.906    | 3.622  | 0.1571 |
| REC 582   | Single Groove - Type 5  | 1.4882   | Nil          | 0.906    | 3.635  | 0.1765 |
| REC 598   | Single Groove - Type 5  | 1.4882   | Nil          | 0.906    | 3.635  | 0.1765 |
| REC 858   | Single Groove - Type 5  | 1.4882   | Nil          | 0.905    | 3.696  | 0.1571 |
| REC 876   | Single Groove - Type 5  | 1.4882   | Nil          | 0.906    | 3.720  | 0.1765 |
| REC 814   | Single Groove - Type 5  | 1.4882   | Nil          | 0.906    | 3.495  | 0.1570 |
| REC 838   | Single Groove - Type 5  | 1.4882   | Nil          | 0.907    | 3.095  | 0.1570 |
| REC 837   | Single Groove - Type 5  | 1.4882   | Nil          | 0.907    | 3.152  | 0.1570 |
| REC 760   | Single Groove - Type 5  | 1.4882   | Nil          | 0.907    | 3.186  | 0.1570 |
| REC 760/1 | Single Groove - Type 5  | 1.4882   | Nil          | 0.907    | 3.186  | 0.1570 |
| REC 683   | Single Groove - Type 5  | 1.4882   | Nil          | 0.908    | 3.420  | 0.1770 |
| REC 824   | Single Groove - Type 5  | 1.4882   | Nil          | 0.925    | 3.431  | 0.1571 |
| REC 824/1 | Single Groove - Type 5  | EN52     | Nil          | 0.925    | 3.431  | 0.1571 |
| REC 823   | Single Groove - Type 5  | 1.4882   | Nil          | 0.925    | 3.478  | 0.1571 |
| REC 823/1 | Single Groove - Type 5  | EN52     | Nil          | 0.925    | 3.478  | 0.1571 |
| REC 652   | Single Groove - Type 5  | 1.4882   | Nil          | 0.925    | 3.570  | 0.1770 |
| REC 651   | Single Groove - Type 5  | 1.4882   | Nil          | 0.925    | 3.620  | 0.1770 |
| REC 618   | Single Groove - Type 5  | 1.4882   | Nil          | 0.938    | 4.442  | 0.1770 |
| REC 474   | Single Groove - Type 5  | 1.4882   | Nil          | 0.942    | 3.562  | 0.1768 |
| REC 473   | Single Groove - Type 5  | 1.4882   | Nil          | 0.942    | 3.616  | 0.1768 |
| REC 807   | Single Groove - Type 5  | 1.4882   | Nil          | 0.944    | 3.622  | 0.1570 |
| REC 800   | Single Groove - Type 5  | 1.4882   | Nil          | 0.944    | 3.756  | 0.1560 |
| REC 800/1 | Single Groove - Type 5  | 1.4882   | Nil          | 0.944    | 3.756  | 0.1560 |
| REC 802   | Single Groove - Type 5  | 1.4882   | Nil          | 0.944    | 3.756  | 0.1560 |
| REC 802/1 | Single Groove - Type 5  | 1.4882   | Nil          | 0.944    | 3.756  | 0.1560 |
| REC 862   | Single Groove - Type 5  | 1.4882   | Nil          | 0.944    | 3.761  | 0.1760 |
| REC 862/1 | Single Groove - Type 5  | 1.4882   | Nil          | 0.944    | 3.761  | 0.1760 |
| REC 351   | Single Groove - Type 5  | 1.4882   | Stellite Tip | 0.944    | 3.878  | 0.1960 |
| REC 620   | Single Groove - Type 5  | 1.4882   | Stellite Tip | 0.945    | 3.435  | 0.1570 |
| REC 625   | Single Groove - Type 5  | 1.4882   | Stellite Tip | 0.945    | 3.435  | 0.1570 |
| REC 655   | Single Groove - Type 5  | 1.4882   | Nil          | 0.945    | 3.570  | 0.1770 |
| REC 654   | Single Groove - Type 5  | 1.4882   | Nil          | 0.945    | 3.620  | 0.1770 |
| REC 953   | Single Groove - Type 5  | 1.4882   | Nil          | 0.945    | 3.642  | 0.2156 |
| REC 854   | Single Groove - Type 5  | 1.4882   | Nil          | 0.945    | 3.760  | 0.1565 |
| REC 701   | Single Groove - Type 5  | 1.4882   | Nil          | 0.946    | 3.798  | 0.1760 |
| REC 643   | Single Groove - Type 5  | 1.4882   | Stellite Tip | 0.946    | 3.810  | 0.1760 |
| REC 681   | Single Groove - Type 5  | 1.4882   | Nil          | 0.947    | 3.420  | 0.1770 |
| REC 845   | Single Groove - Type 5  | 1.4882   | Nil          | 0.947    | 3.451  | 0.1765 |
| REC 677   | Single Groove - Type 5  | 1.4882   | Nil          | 0.950    | 3.545  | 0.2350 |
| REC 677/1 | Single Groove - Type 5  | 1.4882   | Nil          | 0.950    | 3.545  | 0.2350 |
| REC 584   | Single Groove - Type 5  | 1.4882   | Nil          | 0.963    | 3.572  | 0.1765 |
| REC 600   | Single Groove - Type 5  | 1.4882   | Nil          | 0.963    | 3.572  | 0.1765 |
| REC 743   | Single Groove - Type 5  | 1.4882   | Nil          | 0.964    | 3.510  | 0.1571 |
| REC 839   | Single Groove - Type 5  | 1.4882   | Nil          | 0.965    | 3.066  | 0.1768 |
| REC 636   | Single Groove - Type 5  | 1.4882   | Nil          | 0.965    | 3.526  | 0.1768 |
| REC 510   | Single Groove - Type 5  | 1.4882   | Nil          | 0.965    | 3.576  | 0.1768 |
| REC 634   | Single Groove - Type 5  | 1.4882   | Nil          | 0.966    | 3.709  | 0.1765 |
| REC 630   | Single Groove - Type 5  | 1.4882   | Nil          | 0.966    | 3.721  | 0.1765 |
| REC 755   | Single Groove - Type 5  | 1.4882   | Nil          | 0.982    | 3.712  | 0.1570 |
| REC 897   | Single Groove - Type 5  | 1.4882   | Nil          | 0.984    | 3.114  | 0.1765 |
| REC 325   | Single Groove - Type 5  | 1.4882   | Nil          | 0.984    | 3.385  | 0.2150 |

| Part No.  | Groove Type (see Diag.) | Material    | Hardened Tip  | Head Dia | Length | Stem   |
|-----------|-------------------------|-------------|---------------|----------|--------|--------|
| REC 647   | Single Groove - Type 5  | 1.4882      | Nil           | 0.984    | 3.433  | 0.1952 |
| REC 825   | Single Groove - Type 5  | 1.4882      | Nil           | 0.984    | 3.449  | 0.1762 |
| REC 653   | Single Groove - Type 5  | 1.4882      | Nil           | 0.984    | 3.550  | 0.1765 |
| REC 877   | Single Groove - Type 5  | 1.4882      | Nil           | 0.984    | 3.567  | 0.1762 |
| REC 551   | Single Groove - Type 5  | 1.4882      | Nil           | 0.984    | 3.628  | 0.1760 |
| REC 709   | Single Groove - Type 5  | 1.4882      | Nil           | 0.984    | 3.725  | 0.1760 |
| REC 919   | Single Groove - Type 5  | 1.4882      | Nil           | 0.984    | 3.756  | 0.1560 |
| REC 730   | Single Groove - Type 5  | 1.4882      | Stellite Tip  | 0.984    | 3.798  | 0.1760 |
| REC 881   | Triple Groove - Type 7  | 1.4882      | Stellite Tip  | 0.984    | 3.994  | 0.2345 |
| REC 687   | Single Groove - Type 5  | 1.4882      | Stellite Tip  | 0.985    | 3.812  | 0.1760 |
| REC 620/1 | Single Groove - Type 5  | 1.4882      | Stellite Tip  | 0.994    | 3.435  | 0.1570 |
| REC 864   | Single Groove - Type 5  | 1.4882      | Stellite Tip  | 0.994    | 3.435  | 0.1570 |
| REC 808   | Triple Groove - Type 7  | 1.4882      | Stellite Tip  | 0.994    | 4.636  | 0.2340 |
| REC 830   | Triple Groove - Type 7  | 1.4882      | Stellite Tip  | 0.994    | 4.636  | 0.2340 |
| REC 934   | Single Groove - Type 5  | 1.4882      | Stellite Tip  | 0.994    | 4.636  | 0.2340 |
| REC 935   | Single Groove - Type 5  | 1.4882      | Stellite Tip  | 0.994    | 4.636  | 0.2340 |
| REC 808/1 | Triple Groove - Type 7  | 1.4882      | Stellite Tip  | 0.994    | 4.636  | 0.2355 |
| REC 830/1 | Triple Groove - Type 7  | 1.4882      | Stellite Tip  | 0.994    | 4.636  | 0.2355 |
| REC 233   | Single Groove - Type 5  | 214N        | Nil           | 0.998    | 3.980  | 0.2790 |
| REC 229   | Single Groove - Type 5  | 214N        | Nil           | 1.000    | 3.920  | 0.2800 |
| REC 941   | Single Groove - Type 5  | EN52        | Barrel Harden | 1.002    | 3.819  | 0.2355 |
| REC 603   | Single Groove - Type 5  | 1.4882      | Nil           | 1.004    | 3.107  | 0.1570 |
| REC 603/1 | Single Groove - Type 5  | 1.4882      | Nil           | 1.004    | 3.122  | 0.1570 |
| REC 603/2 | Single Groove - Type 5  | 1.4882      | Nil           | 1.004    | 3.122  | 0.1570 |
| REC 735   | Single Groove - Type 5  | 1.4882      | Nil           | 1.004    | 3.122  | 0.1570 |
| REC 735/1 | Single Groove - Type 5  | 1.4882      | Nil           | 1.004    | 3.122  | 0.1570 |
| REC 326   | Single Groove - Type 5  | 1.4882      | Stellite Tip  | 1.004    | 3.385  | 0.2150 |
| REC 883   | Single Groove - Type 5  | 1.4882      | Nil           | 1.004    | 3.390  | 0.1768 |
| REC 656   | Single Groove - Type 5  | 1.4882      | Nil           | 1.004    | 3.550  | 0.1768 |
| REC 475   | Single Groove - Type 5  | 1.4882      | Stellite Tip  | 1.004    | 3.576  | 0.1768 |
| REC 834   | Single Groove - Type 5  | 1.4882      | Nil           | 1.004    | 4.110  | 0.2355 |
| REC 834/1 | Single Groove - Type 5  | 1.4882      | Nil           | 1.004    | 4.110  | 0.2355 |
| SV300-50  | Single Groove - Type 5  | 214N        | Stellite Tip  | 1.005    | 3.445  | 0.2790 |
| REC 420   | Single Groove - Type 5  | 1.4882      | Nil           | 1.010    | 3.526  | 0.1760 |
| REC 469   | Single Groove - Type 5  | Nimonic 80A | Nil           | 1.020    | 4.095  | 0.2746 |
| REC 867   | Single Groove - Type 5  | 1.4882      | Nil           | 1.022    | 3.222  | 0.1960 |
| REC 488   | Single Groove - Type 5  | 1.4882      | Harden Tip    | 1.023    | 3.346  | 0.1955 |
| REC 488/1 | Single Groove - Type 5  | 1.4882      | Harden Tip    | 1.023    | 3.346  | 0.1955 |
| REC 740   | Single Groove - Type 5  | 1.4882      | Nil           | 1.023    | 3.543  | 0.2350 |
| REC 740/1 | Single Groove - Type 5  | 1.4882      | Nil           | 1.023    | 3.543  | 0.2350 |
| REC 857   | Single Groove - Type 5  | 1.4882      | Nil           | 1.023    | 3.712  | 0.1571 |
| REC 692   | Single Groove - Type 5  | 1.4882      | Nil           | 1.024    | 3.432  | 0.1952 |
| REC 692/1 | Single Groove - Type 5  | 1.4882      | Nil           | 1.024    | 3.432  | 0.1952 |
| REC 631   | Single Groove - Type 5  | 1.4882      | Nil           | 1.024    | 3.624  | 0.1770 |
| REC 532   | Single Groove - Type 5  | 1.4882      | Nil           | 1.024    | 3.682  | 0.2155 |
| REC 903   | Single Groove - Type 5  | 1.4882      | Nil           | 1.024    | 3.868  | 0.2346 |
| REC 903/1 | Single Groove - Type 5  | 1.4882      | Nil           | 1.024    | 3.868  | 0.2346 |
| REC 903/2 | Single Groove - Type 5  | 1.4882      | Nil           | 1.024    | 3.868  | 0.2346 |
| REC 943   | Triple Groove - Type 8  | Nimonic 80A | Nil           | 1.024    | 4.335  | 0.1958 |
| REC 943/1 | Single Groove - Type 5  | Nimonic 80A | Nil           | 1.024    | 4.335  | 0.1958 |
| REC 929   | Single Groove - Type 5  | 1.4882      | Nil           | 1.032    | 4.146  | 0.2352 |
| REC 407/1 | Single Groove - Type 5  | 214N        | Harden Tip    | 1.039    | 3.494  | 0.2745 |

| Part No.  | Groove Type (see Diag.) | Material    | Hardened Tip | Head Dia | Length | Stem   |
|-----------|-------------------------|-------------|--------------|----------|--------|--------|
| REC 745   | Single Groove - Type 5  | 1.4882      | Nil          | 1.042    | 3.788  | 0.1770 |
| REC 759   | Single Groove - Type 5  | 1.4882      | Nil          | 1.043    | 3.462  | 0.1570 |
| REC 759/1 | Single Groove - Type 5  | 1.4882      | Nil          | 1.043    | 3.462  | 0.1570 |
| REC 122   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.060    | 3.450  | 0.2800 |
| REC 888   | Single Groove - Type 5  | 1.4882      | Nil          | 1.060    | 3.470  | 0.1960 |
| REC 693   | Single Groove - Type 5  | 1.4882      | Nil          | 1.060    | 3.500  | 0.1960 |
| REC 617   | Single Groove - Type 5  | 1.4882      | Harden Tip   | 1.062    | 3.346  | 0.1955 |
| SV300-51  | Single Groove - Type 5  | 214N        | Stellite Tip | 1.062    | 3.445  | 0.2790 |
| REC 770   | Single Groove - Type 5  | 1.4882      | Nil          | 1.062    | 3.632  | 0.1954 |
| REC 884   | Single Groove - Type 5  | 1.4882      | Nil          | 1.063    | 3.390  | 0.1760 |
| REC 672   | Single Groove - Type 5  | 1.4882      | Stellite Tip | 1.063    | 3.898  | 0.2350 |
| REC 516   | Single Groove - Type 5  | 214N/1.3343 | Harden Tip   | 1.063    | 3.996  | 0.2355 |
| REC 809/1 | Single Groove - Type 5  | 1.4882      | Nil          | 1.064    | 3.407  | 0.1570 |
| REC 875   | Single Groove - Type 5  | 1.4882      | Nil          | 1.064    | 3.704  | 0.1765 |
| REC 645   | Single Groove - Type 5  | 1.4882      | Nil          | 1.064    | 3.718  | 0.1760 |
| REC 797   | Single Groove - Type 5  | 1.4882      | Nil          | 1.064    | 3.806  | 0.1571 |
| REC 657   | Single Groove - Type 5  | 1.4882      | Nil          | 1.064    | 3.814  | 0.1570 |
| REC 657/1 | Single Groove - Type 5  | 1.4882      | Nil          | 1.064    | 3.814  | 0.1571 |
| REC 657K  | Single Groove - Type 5  | 1.4882      | Nil          | 1.064    | 3.814  | 0.1571 |
| REC 642   | Single Groove - Type 5  | 1.4882      | Stellite Tip | 1.065    | 3.800  | 0.1765 |
| REC 733   | Single Groove - Type 5  | 1.4882      | Stellite Tip | 1.065    | 4.080  | 0.2160 |
| REC 842   | Single Groove - Type 5  | EN52        | Nil          | 1.067    | 3.768  | 0.1765 |
| REC 870   | Single Groove - Type 5  | 1.4882      | Nil          | 1.067    | 3.768  | 0.1765 |
| REC 130   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.070    | 3.438  | 0.2803 |
| REC 803   | Single Groove - Type 5  | 1.4882      | Nil          | 1.070    | 3.548  | 0.1570 |
| REC 803/1 | Single Groove - Type 5  | 1.4882      | Nil          | 1.070    | 3.548  | 0.1570 |
| REC 811/1 | Single Groove - Type 5  | 1.4882      | Nil          | 1.070    | 3.548  | 0.1570 |
| REC 231   | Single Groove - Type 5  | 214N        | Nil          | 1.070    | 3.927  | 0.2800 |
| REC 235   | Single Groove - Type 5  | 214N        | Nil          | 1.070    | 3.970  | 0.2800 |
| REC 931   | Single Groove - Type 5  | 1.4882      | Nil          | 1.071    | 4.146  | 0.2352 |
| REC 758   | Single Groove - Type 5  | 1.4882      | Nil          | 1.079    | 3.543  | 0.2350 |
| REC 758/1 | Single Groove - Type 5  | 1.4882      | Nil          | 1.079    | 3.543  | 0.2350 |
| REC 813   | Single Groove - Type 5  | 1.4882      | Nil          | 1.080    | 3.495  | 0.1570 |
| REC 662   | Triple Groove - Type 7  | 1.4882      | Nil          | 1.080    | 4.022  | 0.2345 |
| REC 682   | Single Groove - Type 5  | 1.4882      | Nil          | 1.082    | 3.420  | 0.1770 |
| REC 684   | Single Groove - Type 5  | 1.4882      | Stellite Tip | 1.082    | 3.772  | 0.2155 |
| REC 840/1 | Single Groove - Type 5  | 1.4882      | Nil          | 1.083    | 3.460  | 0.1570 |
| REC 818   | Single Groove - Type 5  | 1.4882      | Nil          | 1.083    | 3.738  | 0.1960 |
| REC 818/1 | Single Groove - Type 5  | 1.4882      | Nil          | 1.083    | 3.738  | 0.1960 |
| REC 676   | Single Groove - Type 5  | 1.4882      | Stellite Tip | 1.092    | 3.528  | 0.2350 |
| SV300-1   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.095    | 3.437  | 0.2796 |
| REC 635   | Single Groove - Type 5  | 1.4882      | Nil          | 1.102    | 3.532  | 0.1765 |
| REC 407   | Long Groove - Type 2    | 214N        | Stellite Tip | 1.102    | 3.543  | 0.2745 |
| REC 772   | Single Groove - Type 5  | 1.4882      | Nil          | 1.102    | 3.632  | 0.1954 |
| REC 341   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.102    | 3.838  | 0.2750 |
| REC 503   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.102    | 3.872  | 0.2740 |
| REC 690   | Single Groove - Type 5  | 1.4882      | Stellite Tip | 1.102    | 3.878  | 0.2150 |
| REC 927   | Single Groove - Type 5  | 1.4882      | Nil          | 1.102    | 4.012  | 0.2352 |
| REC 537   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.102    | 4.346  | 0.2740 |
| REC 722   | Single Groove - Type 5  | 1.4882      | Nil          | 1.103    | 3.718  | 0.1760 |
| REC 699   | Single Groove - Type 5  | 1.4882      | Stellite Tip | 1.106    | 4.090  | 0.2350 |
| REC 852   | Single Groove - Type 5  | 1.4882      | Nil          | 1.114    | 3.870  | 0.1957 |

| Part No.  | Groove Type (see Diag.) | Material | Hardened Tip | Head Dia | Length | Stem   |
|-----------|-------------------------|----------|--------------|----------|--------|--------|
| REC 323   | Single Groove - Type 5  | 1.4882   | Stellite Tip | 1.120    | 3.406  | 0.2158 |
| REC 664   | Triple Groove - Type 7  | 1.4882   | Nil          | 1.120    | 4.022  | 0.2345 |
| REC 680   | Single Groove - Type 5  | 1.4882   | Nil          | 1.121    | 3.420  | 0.1770 |
| REC 646   | Single Groove - Type 5  | 1.4882   | Nil          | 1.122    | 3.458  | 0.1960 |
| REC 418   | Single Groove - Type 5  | 1.4882   | Nil          | 1.122    | 3.532  | 0.1765 |
| REC 783   | Single Groove - Type 5  | 1.4882   | Nil          | 1.122    | 3.543  | 0.2350 |
| REC 783/1 | Single Groove - Type 5  | 1.4882   | Nil          | 1.122    | 3.543  | 0.2350 |
| REC 952   | Single Groove - Type 5  | 1.4882   | Nil          | 1.122    | 3.675  | 0.2158 |
| REC 820   | Single Groove - Type 5  | 1.4882   | Nil          | 1.122    | 3.738  | 0.1960 |
| REC 820/1 | Single Groove - Type 5  | 1.4882   | Nil          | 1.122    | 3.738  | 0.1960 |
| REC 748   | Single Groove - Type 5  | 214N     | Stellite Tip | 1.125    | 3.248  | 0.2795 |
| REC 848   | Single Groove - Type 5  | 1.4882   | Nil          | 1.125    | 3.558  | 0.1762 |
| REC 328   | Single Groove - Type 5  | 214N     | Stellite Tip | 1.125    | 4.375  | 0.2798 |
| REC 602   | Triple Groove - Type 7  | 214N     | Nil          | 1.132    | 4.266  | 0.2745 |
| REC 940   | Single Groove - Type 5  | 1.4882   | Nil          | 1.134    | 4.819  | 0.1764 |
| REC 404   | Triple Groove - Type 7  | 214N     | Stellite Tip | 1.138    | 3.937  | 0.3120 |
| REC 468   | Single Groove - Type 5  | 214N     | Nil          | 1.138    | 3.998  | 0.2746 |
| REC 303   | Single Groove - Type 5  | 214N     | Stellite Tip | 1.140    | 4.134  | 0.2750 |
| REC 749   | Single Groove - Type 5  | 1.4882   | Nil          | 1.140    | 4.298  | 0.2155 |
| REC 324   | Single Groove - Type 5  | 1.4882   | Stellite Tip | 1.141    | 3.406  | 0.2158 |
| REC 844   | Single Groove - Type 5  | 1.4882   | Nil          | 1.141    | 3.428  | 0.1770 |
| REC 700   | Single Groove - Type 5  | 1.4882   | Nil          | 1.141    | 3.786  | 0.1770 |
| REC 322   | Long Groove - Type 2    | 214N     | Stellite Tip | 1.141    | 3.800  | 0.2746 |
| REC 686   | Single Groove - Type 5  | 1.4882   | Stellite Tip | 1.141    | 3.812  | 0.1765 |
| REC 778   | Single Groove - Type 5  | 1.4882   | Nil          | 1.141    | 4.132  | 0.2350 |
| REC 459   | Triple Groove - Type 8  | 214N     | Nil          | 1.141    | 4.132  | 0.2740 |
| REC 459S  | Triple Groove - Type 8  | 214N     | Nil          | 1.141    | 4.132  | 0.2740 |
| REC 638   | Single Groove - Type 5  | 1.4882   | Nil          | 1.142    | 3.353  | 0.1765 |
| REC 419   | Single Groove - Type 5  | 1.4882   | Nil          | 1.142    | 3.532  | 0.1765 |
| REC 419SS | Single Groove - Type 5  | 1.4882   | Stellite Tip | 1.142    | 3.532  | 0.1765 |
| REC 550   | Single Groove - Type 5  | 1.4882   | Nil          | 1.142    | 3.630  | 0.1765 |
| REC 633   | Single Groove - Type 5  | 1.4882   | Nil          | 1.142    | 3.688  | 0.1765 |
| REC 633SS | Single Groove - Type 5  | 1.4882   | Stellite Tip | 1.142    | 3.688  | 0.1765 |
| REC 629   | Single Groove - Type 5  | 1.4882   | Nil          | 1.142    | 3.700  | 0.1765 |
| REC 708   | Single Groove - Type 5  | 1.4882   | Nil          | 1.142    | 3.709  | 0.1765 |
| REC 853   | Single Groove - Type 5  | 1.4882   | Nil          | 1.142    | 3.740  | 0.1570 |
| REC 801   | Single Groove - Type 5  | 1.4882   | Nil          | 1.142    | 3.756  | 0.1565 |
| REC 801/1 | Single Groove - Type 5  | 1.4882   | Nil          | 1.142    | 3.756  | 0.1565 |
| REC 799   | Single Groove - Type 5  | 1.4882   | Nil          | 1.142    | 3.756  | 0.1565 |
| REC 799/1 | Single Groove - Type 5  | 1.4882   | Nil          | 1.142    | 3.756  | 0.1565 |
| REC 921   | Triple Groove - Type 7  | 214N     | Nil          | 1.142    | 3.843  | 0.2375 |
| REC 238   | Single Groove - Type 5  | 214N     | Nil          | 1.142    | 3.980  | 0.2790 |
| REC 580   | Single Groove - Type 5  | 214N     | Stellite Tip | 1.142    | 3.838  | 0.2750 |
| REC 923   | Triple Groove - Type 7  | 214N     | Nil          | 1.142    | 4.020  | 0.2375 |
| REC 715   | Single Groove - Type 6  | 214N     | Stellite Tip | 1.142    | 4.227  | 0.2375 |
| REC 726   | Single Groove - Type 5  | 214N     | Nil          | 1.142    | 4.634  | 0.2349 |
| REC 102   | Single Groove - Type 5  | 214N     | Stellite Tip | 1.145    | 3.450  | 0.2800 |
| REC 106   | Single Groove - Type 5  | 214N     | Stellite Tip | 1.150    | 3.570  | 0.2793 |
| REC 128   | Single Groove - Type 5  | 214N     | Stellite Tip | 1.150    | 3.570  | 0.2793 |
| REC 299   | Long Groove - Type 1    | 214N     | Stellite Tip | 1.150    | 3.930  | 0.3140 |
| SV300-52  | Single Groove - Type 5  | 214N     | Stellite Tip | 1.153    | 3.592  | 0.2790 |
| REC 942   | Triple Groove - Type 8  | 1.4882   | Nil          | 1.154    | 4.161  | 0.1960 |

| Part No.  | Groove Type (see Diag.) | Material     | Hardened Tip  | Head Dia | Length | Stem   |
|-----------|-------------------------|--------------|---------------|----------|--------|--------|
| REC 942/1 | Single Groove - Type 5  | 1.4882       | Nil           | 1.154    | 4.161  | 0.1960 |
| SV300-2   | Single Groove - Type 5  | 214N         | Stellite Tip  | 1.157    | 3.437  | 0.2796 |
| REC 956   | Single Groove - Type 5  | 214N         | Stellite Tip  | 1.157    | 3.570  | 0.2793 |
| REC 123   | Single Groove - Type 5  | 214N         | Stellite Tip  | 1.160    | 3.592  | 0.2790 |
| REC 395   | Single Groove - Type 5  | 214N         | Nil           | 1.160    | 4.615  | 0.2790 |
| REC 739   | Single Groove - Type 5  | 1.4882       | Nil           | 1.161    | 3.528  | 0.2350 |
| REC 865   | Single Groove - Type 5  | 1.4882       | Nil           | 1.161    | 3.756  | 0.1565 |
| REC 833   | Single Groove - Type 5  | 1.4882       | Nil           | 1.161    | 4.110  | 0.2355 |
| REC 744   | Single Groove - Type 5  | 1.4882       | Stellite Tip  | 1.180    | 3.786  | 0.1770 |
| REC 487   | Single Groove - Type 5  | 1.4882       | Harden Tip    | 1.181    | 3.374  | 0.1960 |
| REC 487/1 | Single Groove - Type 5  | 1.4882       | Harden Tip    | 1.181    | 3.374  | 0.1960 |
| REC 329   | Single Groove - Type 5  | 1.4882       | Stellite Tip  | 1.181    | 3.410  | 0.2155 |
| REC 691   | Single Groove - Type 5  | 1.4882       | Nil           | 1.181    | 3.458  | 0.1960 |
| REC 483   | Long Groove - Type 1    | 214N         | Stellite Tip  | 1.181    | 3.543  | 0.2750 |
| REC 133   | Single Groove - Type 5  | 214N         | Stellite Tip  | 1.181    | 3.570  | 0.2798 |
| REC 531   | Single Groove - Type 5  | 1.4882       | Nil           | 1.181    | 3.705  | 0.2160 |
| REC 719   | Single Groove - Type 5  | 1.4882       | Nil           | 1.181    | 3.709  | 0.1765 |
| REC 784   | Single Groove - Type 6  | 214N/1.3343  | Harden Tip    | 1.181    | 3.740  | 0.3140 |
| REC 497   | Single Groove - Type 5  | 214N/1.3343  | Harden Tip    | 1.181    | 3.740  | 0.3140 |
| REC 784/1 | Single Groove - Type 6  | 214N/1.3343  | Harden Tip    | 1.181    | 3.760  | 0.3140 |
| REC 863   | Single Groove - Type 5  | 1.4882       | Nil           | 1.181    | 3.756  | 0.1565 |
| REC 902   | Single Groove - Type 5  | 1.4882       | Nil           | 1.181    | 3.782  | 0.2350 |
| REC 902/1 | Single Groove - Type 5  | 1.4882       | Nil           | 1.181    | 3.782  | 0.2350 |
| REC 902/2 | Single Groove - Type 5  | 1.4882       | Nil           | 1.181    | 3.782  | 0.2350 |
| REC 697   | Single Groove - Type 6  | 1.4882       | Nil           | 1.181    | 3.808  | 0.2375 |
| REC 507   | Single Groove - Type 5  | 1.4882       | Stellite Tip  | 1.181    | 3.858  | 0.2355 |
| REC 453   | Single Groove - Type 5  | 1.4882       | Stellite Tip  | 1.181    | 3.946  | 0.2355 |
| REC 611   | Single Groove - Type 6  | 214N         | Stellite Tip  | 1.181    | 4.027  | 0.2740 |
| REC 850   | Single Groove - Type 5  | 1.4882       | Nil           | 1.181    | 4.120  | 0.2155 |
| REC 850N  | Single Groove - Type 5  | 1.4882       | Nil           | 1.181    | 4.120  | 0.2155 |
| REC 932   | Single Groove - Type 5  | 1.4882       | Nil           | 1.181    | 4.120  | 0.2155 |
| REC 780   | Single Groove - Type 5  | 1.4882       | Nil           | 1.181    | 4.132  | 0.2350 |
| REC 443   | Triple Groove - Type 8  | 214N         | Nil           | 1.181    | 4.171  | 0.2740 |
| REC 443S  | Triple Groove - Type 8  | 214N         | Nil           | 1.181    | 4.171  | 0.2740 |
| REC 443N  | Triple Groove - Type 8  | Nimonic      | Nil           | 1.181    | 4.171  | 0.2740 |
| REC 609/1 | Single Groove - Type 6  | 214N         | Stellite Tip  | 1.181    | 4.188  | 0.2750 |
| REC 869   | Triple Groove - Type 8  | Nimonic EN52 | Barrel Harden | 1.181    | 4.203  | 0.2343 |
| REC 947   | Single Groove - Type 5  | 1.4882/EN52  | Barrel Harden | 1.181    | 4.278  | 0.2155 |
| REC 679   | Triple Groove - Type 8  | 214N         | Nil           | 1.181    | 4.394  | 0.2763 |
| REC 827   | Single Groove - Type 5  | 1.4882       | Nil           | 1.181    | 4.559  | 0.1961 |
| REC 861/1 | Single Groove - Type 5  | 1.4882       | Nil           | 1.182    | 3.752  | 0.1765 |
| REC 640   | Single Groove - Type 5  | 1.4882/EN52  | Harden Tip    | 1.182    | 3.963  | 0.2360 |
| REC 668   | Triple Groove - Type 7  | 214N         | Stellite Tip  | 1.183    | 3.660  | 0.2745 |
| REC 705   | Triple Groove - Type 7  | 214N         | Stellite Tip  | 1.183    | 3.660  | 0.2745 |
| REC 766   | Single Groove - Type 5  | 1.4882       | Nil           | 1.184    | 4.615  | 0.2790 |
| REC 816   | Triple Groove - Type 8  | 1.4882       | Nil           | 1.189    | 3.632  | 0.2350 |
| REC 816SS | Triple Groove - Type 8  | 1.4882       | Nil           | 1.189    | 3.632  | 0.2350 |
| REC 816N  | Triple Groove - Type 8  | Nimonic      | Nil           | 1.189    | 3.632  | 0.2350 |
| REC 337   | Single Groove - Type 5  | 214N         | Stellite Tip  | 1.200    | 3.525  | 0.2588 |
| REC 132   | Single Groove - Type 5  | 214N         | Stellite Tip  | 1.200    | 3.570  | 0.2803 |
| REC 637   | Single Groove - Type 5  | 214N         | Stellite Tip  | 1.200    | 3.667  | 0.3115 |
| REC 476   | Single Groove - Type 5  | 214N         | Nil           | 1.200    | 4.585  | 0.2790 |

| Part No.  | Groove Type (see Diag.) | Material    | Hardened Tip  | Head Dia | Length | Stem   |
|-----------|-------------------------|-------------|---------------|----------|--------|--------|
| REC 476N  | Single Groove - Type 5  | Nimonic 80A | Nil           | 1.200    | 4.585  | 0.2790 |
| REC 660   | Single Groove - Type 5  | 214N        | Nil           | 1.200    | 4.905  | 0.2790 |
| REC 318   | Single Groove - Type 5  | 214N        | Stellite Tip  | 1.201    | 5.039  | 0.3120 |
| REC 257   | Single Groove - Type 5  | 214N        | Nil           | 1.203    | 3.945  | 0.2790 |
| REC 440   | Single Groove - Type 5  | 214N        | Stellite Tip  | 1.213    | 3.969  | 0.2750 |
| REC 601   | Triple Groove - Type 8  | EN52        | Nil           | 1.214    | 4.232  | 0.2755 |
| 38418     | Triple Groove - Type 7  | 214N        | Stellite Tip  | 1.215    | 3.584  | 0.3138 |
| SV300-53  | Single Groove - Type 5  | 214N        | Stellite Tip  | 1.215    | 3.592  | 0.2790 |
| REC 896   | Single Groove - Type 5  | EN52        | Nil           | 1.220    | 3.107  | 0.1765 |
| REC 866   | Single Groove - Type 5  | 1.4882      | Nil           | 1.220    | 3.272  | 0.1960 |
| REC 616   | Single Groove - Type 5  | 1.4882      | Harden Tip    | 1.220    | 3.374  | 0.1960 |
| SV300-3   | Single Groove - Type 5  | 214N        | Stellite Tip  | 1.220    | 3.437  | 0.2796 |
| REC 129   | Single Groove - Type 5  | 214N        | Stellite Tip  | 1.220    | 3.438  | 0.2803 |
| REC 104   | Single Groove - Type 5  | 214N        | Stellite Tip  | 1.220    | 3.525  | 0.2800 |
| REC 136/1 | Single Groove - Type 5  | 214N        | Stellite Tip  | 1.220    | 3.570  | 0.2347 |
| REC 127   | Single Groove - Type 5  | 214N        | Stellite Tip  | 1.220    | 3.570  | 0.2798 |
| REC 107   | Single Groove - Type 5  | 214N        | Stellite Tip  | 1.220    | 3.570  | 0.2798 |
| REC 377   | Long Groove - Type 1    | 214N        | Stellite Tip  | 1.220    | 3.583  | 0.2953 |
| REC 124   | Single Groove - Type 5  | 214N        | Stellite Tip  | 1.220    | 3.592  | 0.2790 |
| REC 484   | Long Groove - Type 1    | 214N        | Stellite Tip  | 1.220    | 3.543  | 0.2750 |
| REC 671   | Single Groove - Type 5  | 1.4882/EN52 | Harden Tip    | 1.220    | 3.898  | 0.2350 |
| REC 228   | Single Groove - Type 5  | 214N        | Nil           | 1.220    | 3.920  | 0.2800 |
| REC 534   | Single Groove - Type 6  | 214N        | Stellite Tip  | 1.220    | 3.939  | 0.2740 |
| REC 301   | Long Groove - Type 1    | 214N        | Stellite Tip  | 1.220    | 3.940  | 0.2760 |
| REC 333   | Single Groove - Type 5  | 214N        | Stellite Tip  | 1.220    | 3.950  | 0.2590 |
| REC 232   | Single Groove - Type 5  | 214N        | Nil           | 1.220    | 3.980  | 0.2798 |
| REC 661   | Single Groove - Type 5  | 1.4882      | Nil           | 1.220    | 4.058  | 0.2350 |
| REC 379   | Single Groove - Type 5  | 214N        | Stellite Tip  | 1.220    | 4.106  | 0.2590 |
| REC 836   | Single Groove - Type 5  | 1.4882      | Nil           | 1.220    | 4.120  | 0.2155 |
| REC 928   | Single Groove - Type 5  | EN52        | Nil           | 1.220    | 4.146  | 0.2355 |
| REC 782   | Single Groove - Type 5  | 1.4882      | Nil           | 1.220    | 4.132  | 0.2350 |
| REC 590   | Triple Groove - Type 8  | 214N        | Nil           | 1.220    | 4.151  | 0.2740 |
| REC 607/1 | Single Groove - Type 6  | 214N        | Stellite Tip  | 1.220    | 4.188  | 0.2750 |
| REC 948   | Single Groove - Type 5  | 1.4882/EN52 | Barrel Harden | 1.220    | 4.278  | 0.2155 |
| REC 1734  | Long Groove - Type 2    | 214N        | Stellite Tip  | 1.220    | 4.404  | 0.3154 |
| REC 895   | Single Groove - Type 5  | 1.4882      | Nil           | 1.221    | 3.557  | 0.1960 |
| REC 594/1 | Single Groove - Type 6  | 214N        | Stellite Tip  | 1.221    | 4.184  | 0.2750 |
| REC 644   | Single Groove - Type 5  | 1.4882      | Nil           | 1.222    | 3.728  | 0.1765 |
| REC 879   | Single Groove - Type 5  | 1.4882      | Nil           | 1.222    | 4.632  | 0.2790 |
| REC 305   | Single Groove - Type 5  | 214N        | Stellite Tip  | 1.224    | 4.134  | 0.2750 |
| REC 754   | Single Groove - Type 6  | 214N        | Nil           | 1.225    | 4.166  | 0.3140 |
| REC 754N  | Single Groove - Type 6  | 214N        | Nil           | 1.225    | 4.166  | 0.3140 |
| REC 892   | Single Groove - Type 5  | 214N        | Stellite Tip  | 1.225    | 4.530  | 0.2800 |
| REC 348/1 | Single Groove - Type 5  | 214N        | Nil           | 1.225    | 4.755  | 0.2790 |
| REC 828   | Triple Groove - Type 7  | 1.4882      | Stellite Tip  | 1.230    | 4.303  | 0.2340 |
| REC 933   | Single Groove - Type 6  | 1.4882      | Stellite Tip  | 1.230    | 4.303  | 0.2340 |
| REC 411   | Single Groove - Type 5  | 214N        | Harden Tip    | 1.232    | 3.760  | 0.3140 |
| REC 796   | Single Groove - Type 5  | 1.4882      | Nil           | 1.232    | 4.146  | 0.2355 |
| REC 910   | Single Groove - Type 5  | 1.4882      | Nil           | 1.232    | 4.201  | 0.2355 |
| REC 887   | Single Groove - Type 5  | 1.4882      | Nil           | 1.236    | 3.470  | 0.1960 |
| REC 605   | Single Groove - Type 5  | 1.4882      | Nil           | 1.236    | 3.500  | 0.1960 |
| REC 342   | Single Groove - Type 5  | 1.4882      | Stellite Tip  | 1.240    | 3.406  | 0.2158 |

| Part No.  | Groove Type (see Diag.) | Material    | Hardened Tip | Head Dia | Length | Stem   |
|-----------|-------------------------|-------------|--------------|----------|--------|--------|
| REC 757   | Single Groove - Type 5  | 1.4882      | Nil          | 1.240    | 3.528  | 0.2350 |
| REC 137/1 | Single Groove - Type 5  | 214N        | Stellite Tip | 1.240    | 3.570  | 0.2347 |
| REC 880   | Triple Groove - Type 7  | 1.4882      | Stellite Tip | 1.240    | 3.898  | 0.2350 |
| REC 915   | Single Groove - Type 5  | 1.4882      | Nil          | 1.240    | 4.110  | 0.2355 |
| REC 409   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.240    | 4.449  | 0.3150 |
| REC 905   | Triple Groove - Type 8  | 214N        | Nil          | 1.240    | 4.500  | 0.274  |
| REC 523   | Long Groove - Type 2    | 214N        | Nil          | 1.245    | 4.404  | 0.3154 |
| REC 448   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.248    | 4.096  | 0.2800 |
| SV300-54  | Single Groove - Type 5  | 214N        | Stellite Tip | 1.250    | 3.592  | 0.2790 |
| REC 282   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.250    | 3.953  | 0.2800 |
| SV300-4   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.252    | 3.437  | 0.2796 |
| REC 406/1 | Single Groove - Type 5  | 214N        | Harden Tip   | 1.252    | 3.543  | 0.2750 |
| REC 907   | Single Groove - Type 5  | 1.4882      | Nil          | 1.252    | 4.611  | 0.2790 |
| REC 762   | Single Groove - Type 5  | 1.4882      | Nil          | 1.252    | 4.646  | 0.2790 |
| REC 445   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.253    | 3.969  | 0.2750 |
| REC 641   | Single Groove - Type 5  | 1.4882      | Harden Tip   | 1.258    | 3.652  | 0.2355 |
| REC 486   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.259    | 3.504  | 0.2750 |
| REC 138/1 | Single Groove - Type 5  | 214N        | Stellite Tip | 1.259    | 3.570  | 0.2347 |
| REC 707   | Triple Groove - Type 7  | 214N        | Stellite Tip | 1.259    | 3.660  | 0.2745 |
| REC 502   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.259    | 3.760  | 0.2750 |
| REC 405   | Triple Groove - Type 7  | 214N        | Stellite Tip | 1.259    | 3.937  | 0.3120 |
| REC 536   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.259    | 4.326  | 0.2750 |
| REC 472   | Single Groove - Type 5  | 214N        | Nil          | 1.259    | 4.496  | 0.3115 |
| REC 353   | Square Groove - Type 3  | 214N        | Stellite Tip | 1.259    | 4.715  | 0.2740 |
| REC 108   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.260    | 3.570  | 0.2798 |
| REC 668/1 | Triple Groove - Type 7  | 214N        | Stellite Tip | 1.260    | 3.660  | 0.2745 |
| REC 675   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.260    | 3.697  | 0.3115 |
| REC 785   | Single Groove - Type 6  | 214N        | Harden Tip   | 1.260    | 3.740  | 0.3140 |
| REC 785/1 | Single Groove - Type 6  | 214N/1.3343 | Harden Tip   | 1.260    | 3.740  | 0.3140 |
| REC 663   | Single Groove - Type 5  | 1.4882      | Nil          | 1.260    | 4.058  | 0.2350 |
| REC 314   | Long Groove - Type 2    | 214N        | Stellite Tip | 1.260    | 4.078  | 0.3135 |
| REC 918   | Single Groove - Type 5  | 1.4882      | Nil          | 1.260    | 4.120  | 0.2155 |
| REC 648   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.260    | 4.134  | 0.2750 |
| REC 930   | Single Groove - Type 5  | EN52        | Nil          | 1.260    | 4.146  | 0.2355 |
| REC 714   | Single Groove - Type 6  | 214N        | Stellite Tip | 1.260    | 4.184  | 0.2750 |
| REC 703/1 | Single Groove - Type 6  | 214N        | Stellite Tip | 1.260    | 4.188  | 0.2750 |
| REC 556   | Single Groove - Type 5  | 214N        | Nil          | 1.260    | 4.755  | 0.2790 |
| REC 556/N | Single Groove - Type 5  | Nimonic 80A | Nil          | 1.260    | 4.755  | 0.2790 |
| REC 463   | Single Groove - Type 5  | 214N        | Nil          | 1.260    | 5.140  | 0.2810 |
| REC 721   | Single Groove - Type 5  | 1.4882      | Nil          | 1.261    | 3.728  | 0.1765 |
| REC 769   | Single Groove - Type 5  | 1.4882      | Nil          | 1.262    | 3.630  | 0.1960 |
| REC 908   | Single Groove - Type 5  | 1.4882      | Nil          | 1.270    | 4.110  | 0.2355 |
| REC 860   | Triple Groove - Type 7  | 214N        | Stellite Tip | 1.270    | 4.364  | 0.2745 |
| REC 787   | Single Groove - Type 5  | 214N/1.3343 | Harden Tip   | 1.275    | 3.700  | 0.3140 |
| REC 822   | Single Groove - Type 5  | 214N/1.3343 | Harden Tip   | 1.275    | 3.760  | 0.3140 |
| REC 822/1 | Single Groove - Type 5  | 214N/1.3343 | Harden Tip   | 1.275    | 3.760  | 0.3140 |
| REC 230   | Single Groove - Type 5  | 214N        | Nil          | 1.275    | 3.925  | 0.2795 |
| REC 263   | Single Groove - Type 5  | 214N        | Nil          | 1.275    | 3.975  | 0.2795 |
| REC 253   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.275    | 4.450  | 0.2800 |
| REC 253/1 | Single Groove - Type 5  | 214N        | Stellite Tip | 1.275    | 4.450  | 0.2800 |
| REC 514   | Triple Groove - Type 7  | 214N        | Nil          | 1.278    | 4.028  | 0.2738 |
| REC 734   | Single Groove - Type 5  | 214N        | Nil          | 1.280    | 3.510  | 0.1960 |

| Part No.  | Groove Type (see Diag.) | Material     | Hardened Tip  | Head Dia | Length | Stem   |
|-----------|-------------------------|--------------|---------------|----------|--------|--------|
| REC 767   | Single Groove - Type 5  | 1.4882       | Nil           | 1.280    | 3.528  | 0.2350 |
| REC 545   | Single Groove - Type 5  | 1.4882       | Stellite Tip  | 1.280    | 3.946  | 0.2355 |
| REC 515   | Single Groove - Type 5  | 214N         | Harden Tip    | 1.280    | 3.996  | 0.2355 |
| REC 140   | Single Groove - Type 5  | 214N         | Stellite Tip  | 1.281    | 4.365  | 0.3423 |
| REC 710   | Single Groove - Type 5  | 1.4882       | Stellite Tip  | 1.299    | 3.406  | 0.2158 |
| REC 375   | Long Groove - Type 1    | 214N         | Stellite Tip  | 1.299    | 3.606  | 0.2952 |
| REC 774   | Single Groove - Type 5  | 1.4882       | Harden Tip    | 1.299    | 3.652  | 0.2355 |
| 38552     | Long Groove - Type 2    | 214N         | Stellite Tip  | 1.299    | 3.780  | 0.2745 |
| REC 926   | Single Groove - Type 5  | EN52         | Nil           | 1.299    | 4.010  | 0.2355 |
| REC 777   | Single Groove - Type 5  | 1.4882       | Nil           | 1.299    | 4.132  | 0.2350 |
| REC 458   | Triple Groove - Type 8  | 214N         | Nil           | 1.299    | 4.132  | 0.2742 |
| REC 738   | Single Groove - Type 6  | 214N         | Stellite Tip  | 1.299    | 4.188  | 0.2750 |
| REC 729   | Single Groove - Type 6  | 214N         | Stellite Tip  | 1.299    | 4.223  | 0.2750 |
| REC 549   | Single Groove - Type 5  | 214N         | Stellite Tip  | 1.299    | 4.600  | 0.2800 |
| REC 945   | Single Groove - Type 3  | 214N         | Stellite Tip  | 1.299    | 4.618  | 0.3142 |
| REC 725   | Single Groove - Type 5  | 1.4882       | Nil           | 1.299    | 4.634  | 0.2351 |
| REC 899N  | Single Groove - Type 5  | Nimonic      | Nil           | 1.299    | 4.657  | 0.2790 |
| REC 280   | Single Groove - Type 5  | 214N         | Stellite Tip  | 1.300    | 3.953  | 0.2800 |
| REC 847   | Single Groove - Type 5  | 1.4882       | Nil           | 1.300    | 3.953  | 0.1765 |
| REC 669   | Single Groove - Type 4  | 1.4882       | Stellite Tip  | 1.300    | 4.035  | 0.2160 |
| REC 723   | Single Groove - Type 5  | 214N         | Stellite Tip  | 1.300    | 4.096  | 0.2800 |
| REC 302   | Single Groove - Type 5  | 214N         | Stellite Tip  | 1.300    | 4.134  | 0.2760 |
| REC 530   | Single Groove - Type 5  | 214N         | Nil           | 1.300    | 4.755  | 0.2790 |
| REC 817   | Single Groove - Type 5  | 1.4882       | Nil           | 1.301    | 3.738  | 0.1965 |
| REC 771   | Single Groove - Type 5  | 1.4882       | Nil           | 1.302    | 3.630  | 0.1960 |
| REC 776   | Triple Groove - Type 7  | 214N         | Nil           | 1.305    | 3.575  | 0.3130 |
| REC 373   | Triple Groove - Type 8  | 214N         | Stellite Tip  | 1.305    | 3.840  | 0.3140 |
| REC 535   | Single Groove - Type 5  | 214N         | Stellite Tip  | 1.305    | 4.437  | 0.3108 |
| REC 406   | Long Groove - Type 2    | 214N         | Stellite Tip  | 1.310    | 3.543  | 0.2750 |
| REC 126   | Single Groove - Type 5  | 214N         | Stellite Tip  | 1.310    | 3.570  | 0.2800 |
| REC 543   | Triple Groove - Type 7  | Nimonic/EN52 | Barrel Harden | 1.311    | 3.890  | 0.3130 |
| REC 121   | Single Groove - Type 5  | EN52         | Harden Tip    | 1.312    | 3.437  | 0.2800 |
| REC 421   | Single Groove - Type 5  | 214N         | Stellite Tip  | 1.312    | 3.620  | 0.2750 |
| REC 417   | Single Groove - Type 5  | 214N         | Stellite Tip  | 1.315    | 3.520  | 0.2745 |
| SV300-6   | Single Groove - Type 5  | 214N         | Stellite Tip  | 1.315    | 3.582  | 0.2796 |
| REC 768   | Single Groove - Type 5  | 1.4882       | Nil           | 1.319    | 3.528  | 0.2350 |
| REC 696   | Single Groove - Type 6  | 1.4882       | Nil           | 1.319    | 3.824  | 0.2380 |
| REC 851   | Single Groove - Type 5  | 1.4882       | Nil           | 1.319    | 3.843  | 0.1960 |
| REC 868   | Triple Groove - Type 8  | EN52         | Barrel Harden | 1.319    | 4.240  | 0.2350 |
| REC 678   | Triple Groove - Type 8  | 214N         | Nil           | 1.319    | 4.406  | 0.2770 |
| REC 1733  | Long Groove - Type 2    | 214N         | Nil           | 1.320    | 4.404  | 0.3153 |
| REC 356   | Single Groove - Type 5  | 214N         | Stellite Tip  | 1.322    | 3.965  | 0.3100 |
| REC 219   | Single Groove - Type 5  | 214N         | Nil           | 1.323    | 3.844  | 0.3108 |
| REC 219SS | Single Groove - Type 5  | 214N         | Nil           | 1.323    | 3.844  | 0.3108 |
| REC 236W  | Single Groove - Type 5  | 214N         | Nil           | 1.325    | 3.980  | 0.2795 |
| REC 236   | Single Groove - Type 5  | 214N         | Nil           | 1.325    | 3.980  | 0.2795 |
| REC 307   | Triple Groove - Type 7  | 214N         | Stellite Tip  | 1.330    | 4.355  | 0.3110 |
| 55011     | Triple Groove - Type 7  | 214N         | Stellite Tip  | 1.332    | 4.361  | 0.3100 |
| REC 425   | Triple Groove - Type 7  | 214N         | Stellite Tip  | 1.337    | 4.392  | 0.3095 |
| REC 489   | Long Groove - Type 1    | 214N         | Stellite Tip  | 1.338    | 3.606  | 0.2952 |
| REC 321   | Long Groove - Type 2    | 214N         | Stellite Tip  | 1.338    | 3.840  | 0.2750 |
| REC 402   | Triple Groove - Type 7  | 214N         | Stellite Tip  | 1.338    | 3.937  | 0.3120 |

| Part No.  | Groove Type (see Diag.) | Material    | Hardened Tip | Head Dia | Length | Stem   |
|-----------|-------------------------|-------------|--------------|----------|--------|--------|
| REC 788   | Single Groove - Type 5  | 214N/1.3343 | Harden Tip   | 1.338    | 3.937  | 0.3135 |
| REC 332   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.338    | 3.985  | 0.2600 |
| REC 779   | Single Groove - Type 5  | 1.4882      | Nil          | 1.338    | 4.132  | 0.2350 |
| REC 442   | Triple Groove - Type 8  | 214N        | Nil          | 1.338    | 4.171  | 0.2742 |
| REC 496   | Single Groove - Type 5  | 214N/1.3343 | Harden Tip   | 1.339    | 3.824  | 0.3150 |
| REC 920   | Triple Groove - Type 7  | 214N        | Nil          | 1.339    | 3.864  | 0.2380 |
| REC 608/1 | Single Groove - Type 6  | 214N        | Stellite Tip | 1.339    | 4.188  | 0.2750 |
| REC 819   | Single Groove - Type 5  | 1.4882      | Nil          | 1.340    | 3.738  | 0.1965 |
| REC 261   | Triple Groove - Type 7  | 214N        | Stellite Tip | 1.340    | 4.350  | 0.3100 |
| REC 874   | Single Groove - Type 6  | 214N        | Nil          | 1.299    | 4.061  | 0.2745 |
| REC 698   | Single Groove - Type 5  | 1.4882      | Stellite Tip | 1.299    | 4.090  | 0.2355 |
| REC 610/1 | Single Groove - Type 5  | 1.4882      | Stellite Tip | 1.342    | 3.954  | 0.2357 |
| REC 610   | Single Groove - Type 5  | 1.4882      | Stellite Tip | 1.342    | 3.994  | 0.2357 |
| REC 101   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.343    | 3.437  | 0.2800 |
| REC 557   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.343    | 3.670  | 0.3110 |
| REC 248   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.343    | 4.330  | 0.2800 |
| REC 251   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.343    | 4.330  | 0.3100 |
| SV310-50  | Single Groove - Type 5  | 214N        | Stellite Tip | 1.348    | 4.365  | 0.3423 |
| REC 117   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.350    | 4.575  | 0.3420 |
| REC 939   | Single Groove - Type 5  | 1.4882      | Nil          | 1.354    | 4.807  | 0.1768 |
| REC 125   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.355    | 4.365  | 0.3423 |
| REC 846   | Single Groove - Type 5  | 1.4882      | Nil          | 1.358    | 3.528  | 0.2350 |
| REC 202   | Long Groove - Type 1    | 214N        | Stellite Tip | 1.358    | 3.825  | 0.3100 |
| REC 958   | Triple Groove - Type 8  | 214N        | Stellite Tip | 1.358    | 3.825  | 0.3100 |
| REC 922   | Triple Groove - Type 7  | 214N        | Nil          | 1.358    | 4.043  | 0.2375 |
| REC 524   | Long Groove - Type 2    | 214N        | Nil          | 1.358    | 4.404  | 0.3154 |
| REC 1736  | Long Groove - Type 2    | 214N        | Nil          | 1.358    | 4.404  | 0.3154 |
| REC 205   | Triple Groove - Type 7  | 214N        | Stellite Tip | 1.360    | 4.275  | 0.3100 |
| REC 259   | Single Groove - Type 5  | 214N        | Nil          | 1.362    | 3.975  | 0.2795 |
| REC 795   | Single Groove - Type 5  | 1.4882      | Nil          | 1.362    | 4.189  | 0.2355 |
| REC 909   | Single Groove - Type 5  | 1.4882      | Nil          | 1.362    | 4.233  | 0.2355 |
| REC 258   | Single Groove - Type 5  | 214N        | Nil          | 1.362    | 4.560  | 0.2795 |
| REC 765   | Single Groove - Type 5  | 1.4882      | Nil          | 1.362    | 4.615  | 0.2795 |
| REC 452   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.369    | 3.941  | 0.2355 |
| REC 131   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.372    | 3.570  | 0.2803 |
| REC 311   | Triple Groove - Type 8  | 214N        | Nil          | 1.372    | 4.250  | 0.3137 |
| SV322-54  | Triple Groove - Type 7  | 214N        | Stellite Tip | 1.372    | 4.392  | 0.3095 |
| REC 339   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.375    | 3.355  | 0.3140 |
| REC 222   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.375    | 3.840  | 0.3105 |
| REC 222SS | Single Groove - Type 5  | 214N        | Stellite Tip | 1.375    | 3.840  | 0.3105 |
| REC 226   | Single Groove - Type 5  | 214N        | Nil          | 1.375    | 3.965  | 0.3110 |
| REC 293   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.375    | 4.330  | 0.2800 |
| REC 209   | Triple Groove - Type 7  | 214N        | Stellite Tip | 1.375    | 4.355  | 0.3105 |
| REC 209W  | Triple Groove - Type 7  | 214N        | Stellite Tip | 1.375    | 4.355  | 0.3105 |
| REC 327   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.375    | 4.375  | 0.2800 |
| REC 394   | Single Groove - Type 5  | 214N        | Nil          | 1.377    | 4.615  | 0.2795 |
| REC 806   | Triple Groove - Type 7  | 214N        | Nil          | 1.378    | 3.575  | 0.3130 |
| REC 528   | Single Groove - Type 5  | 214N/1.3343 | Harden Tip   | 1.378    | 3.674  | 0.2740 |
| REC 506   | Single Groove - Type 5  | EN52        | Harden Tip   | 1.378    | 3.858  | 0.2355 |
| REC 340   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.378    | 3.890  | 0.2750 |
| REC 712   | Triple Groove - Type 7  | 214N        | Stellite Tip | 1.378    | 3.904  | 0.3125 |
| REC 689   | Single Groove - Type 5  | 1.4882      | Stellite Tip | 1.378    | 3.929  | 0.2158 |

| Part No.  | Groove Type (see Diag.) | Material    | Hardened Tip | Head Dia | Length | Stem   |
|-----------|-------------------------|-------------|--------------|----------|--------|--------|
| REC 727   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.378    | 3.934  | 0.2161 |
| REC 849   | Single Groove - Type 5  | 1.4882      | Nil          | 1.378    | 4.074  | 0.2155 |
| REC 836   | Single Groove - Type 5  | 1.4882      | Nil          | 1.378    | 4.074  | 0.2155 |
| REC 501   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.378    | 4.126  | 0.3130 |
| REC 781   | Single Groove - Type 5  | 1.4882      | Nil          | 1.378    | 4.132  | 0.2350 |
| REC 304   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.378    | 4.134  | 0.2760 |
| REC 589   | Triple Groove - Type 7  | 214N        | Nil          | 1.378    | 4.151  | 0.2744 |
| REC 344   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.378    | 4.193  | 0.3135 |
| REC 946   | Single Groove - Type 5  | EN52        | Harden Tip   | 1.378    | 4.283  | 0.2158 |
| REC 826   | Single Groove - Type 5  | 1.4882      | Nil          | 1.378    | 4.559  | 0.1964 |
| REC 368   | Square Groove - Type 3  | 214N        | Stellite Tip | 1.378    | 4.575  | 0.3140 |
| REC 753   | Single Groove - Type 5  | 214N        | Nil          | 1.382    | 4.165  | 0.2744 |
| REC 912   | Single Groove - Type 5  | 214N        | Nil          | 1.397    | 4.265  | 0.3140 |
| REC 747   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.400    | 3.245  | 0.2795 |
| REC 103   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.400    | 3.525  | 0.2798 |
| REC 105   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.400    | 3.570  | 0.2798 |
| REC 336   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.400    | 3.580  | 0.2588 |
| REC 114   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.400    | 3.840  | 0.2795 |
| REC 320   | Single Groove - Type 5  | 214N        | Nil          | 1.400    | 3.850  | 0.3110 |
| REC 281   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.400    | 3.953  | 0.2800 |
| REC 242   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.400    | 3.960  | 0.2800 |
| REC 227   | Single Groove - Type 5  | 214N        | Nil          | 1.400    | 3.965  | 0.3100 |
| REC 246   | Triple Groove - Type 7  | 214N        | Stellite Tip | 1.400    | 4.150  | 0.3110 |
| REC 891   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.400    | 4.430  | 0.2800 |
| REC 256   | Single Groove - Type 5  | 214N        | Nil          | 1.400    | 4.560  | 0.2795 |
| REC 316   | Long Groove - Type 1    | 214N        | Stellite Tip | 1.400    | 4.590  | 0.3410 |
| REC 347/1 | Single Groove - Type 5  | 214N        | Nil          | 1.400    | 4.764  | 0.2795 |
| REC 659   | Single Groove - Type 5  | 214N        | Nil          | 1.400    | 4.901  | 0.2795 |
| REC 134/1 | Single Groove - Type 5  | 214N        | Stellite Tip | 1.401    | 3.570  | 0.2347 |
| REC 120   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.401    | 3.570  | 0.2800 |
| SV300-7   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.403    | 3.582  | 0.2796 |
| REC 761   | Single Groove - Type 5  | 1.4882      | Nil          | 1.403    | 4.615  | 0.2795 |
| REC 789   | Single Groove - Type 5  | 1.4882      | Nil          | 1.403    | 4.645  | 0.2795 |
| REC 378   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.410    | 4.162  | 0.2590 |
| REC 704   | Triple Groove - Type 7  | 214N        | Stellite Tip | 1.416    | 3.698  | 0.2750 |
| REC 667   | Triple Groove - Type 7  | 214N        | Stellite Tip | 1.416    | 3.700  | 0.2750 |
| REC 481   | Long Groove - Type 1    | 214N        | Stellite Tip | 1.417    | 3.607  | 0.2750 |
| REC 410   | Single Groove - Type 5  | 214N/1.3343 | Harden Tip   | 1.417    | 3.830  | 0.3145 |
| REC 579   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.417    | 3.890  | 0.2750 |
| REC 533   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.417    | 3.906  | 0.2357 |
| REC 544   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.417    | 3.941  | 0.2355 |
| REC 391   | Triple Groove - Type 7  | 214N        | Stellite Tip | 1.417    | 4.030  | 0.2740 |
| REC 835   | Single Groove - Type 5  | 1.4882      | Nil          | 1.417    | 4.074  | 0.2155 |
| REC 937   | Single Groove - Type 5  | 1.4882      | Nil          | 1.417    | 4.074  | 0.2155 |
| REC 798   | Single Groove - Type 5  | 1.4882      | Nil          | 1.417    | 4.132  | 0.2350 |
| REC 595/1 | Single Groove - Type 6  | 214N        | Stellite Tip | 1.417    | 4.184  | 0.2750 |
| REC 606/1 | Single Groove - Type 6  | 214N        | Stellite Tip | 1.417    | 4.188  | 0.2750 |
| REC 948   | Single Groove - Type 5  | EN52        | Harden Tip   | 1.417    | 4.283  | 0.2158 |
| REC 925   | Triple Groove - Type 8  | 214N        | Stellite Tip | 1.417    | 4.352  | 0.3156 |
| REC 383   | Triple Groove - Type 8  | 214N        | Stellite Tip | 1.417    | 4.425  | 0.3156 |
| REC 471   | Single Groove - Type 5  | 214N        | Nil          | 1.417    | 4.496  | 0.3120 |
| REC 369   | Square Groove - Type 3  | 214N        | Stellite Tip | 1.417    | 4.575  | 0.3140 |

| Part No.  | Groove Type (see Diag.) | Material  | Hardened Tip | Head Dia | Length | Stem   |
|-----------|-------------------------|-----------|--------------|----------|--------|--------|
| REC 385   | Single Groove - Type 5  | 214N      | Stellite Tip | 1.418    | 4.193  | 0.3135 |
| REC 271   | Single Groove - Type 5  | 214N      | Stellite Tip | 1.420    | 4.150  | 0.2800 |
| SV320-56  | Triple Groove - Type 7  | 214N      | Stellite Tip | 1.420    | 4.365  | 0.3153 |
| REC 893   | Single Groove - Type 5  | 214N      | Stellite Tip | 1.420    | 4.430  | 0.2800 |
| REC 317   | Single Groove - Type 5  | EN52      | Harden Tip   | 1.420    | 4.870  | 0.3130 |
| REC 298   | Long Groove - Type 1    | 214N      | Stellite Tip | 1.425    | 3.930  | 0.3140 |
| REC 695   | Single Groove - Type 5  | 214N      | Stellite Tip | 1.425    | 4.285  | 0.3140 |
| REC 266   | Single Groove - Type 5  | 214N      | Stellite Tip | 1.425    | 4.325  | 0.2800 |
| REC 240   | Single Groove - Type 5  | 214N      | Stellite Tip | 1.425    | 4.325  | 0.3100 |
| REC 555   | Single Groove - Type 5  | 214N      | Nil          | 1.427    | 4.764  | 0.2795 |
| REC 555/1 | Single Groove - Type 5  | 214N      | Nil          | 1.427    | 4.764  | 0.2795 |
| 51162     | Single Groove - Type 5  | 214N      | Nil          | 1.427    | 4.764  | 0.2795 |
| REC 906/1 | Single Groove - Type 5  | 1.4882    | Nil          | 1.430    | 4.610  | 0.2795 |
| REC 300   | Long Groove - Type 1    | 214N      | Stellite Tip | 1.437    | 3.940  | 0.2760 |
| REC 547   | Single Groove - Type 5  | 214N      | Stellite Tip | 1.437    | 4.351  | 0.2800 |
| REC 426   | Triple Groove - Type 8  | 214N      | Stellite Tip | 1.437    | 4.356  | 0.3153 |
| REC 1735  | Long Groove - Type 2    | 214N      | Nil          | 1.437    | 4.404  | 0.3153 |
| REC 904   | Triple Groove - Type 8  | 214N      | Nil          | 1.437    | 4.537  | 0.2746 |
| SV310-51  | Single Groove - Type 5  | 214N      | Stellite Tip | 1.438    | 4.365  | 0.3423 |
| REC 135/1 | Single Groove - Type 5  | 214N      | Stellite Tip | 1.440    | 3.570  | 0.2347 |
| REC 119   | Single Groove - Type 5  | 214N      | Stellite Tip | 1.440    | 3.570  | 0.2800 |
| REC 264   | Single Groove - Type 5  | 214N      | Stellite Tip | 1.440    | 3.965  | 0.3110 |
| REC 495   | Triple Groove - Type 7  | 214N      | Stellite Tip | 1.440    | 4.046  | 0.2750 |
| REC 113   | Single Groove - Type 5  | 214N      | Stellite Tip | 1.440    | 4.340  | 0.3420 |
| SV300-8   | Single Groove - Type 5  | 214N      | Stellite Tip | 1.443    | 3.582  | 0.2796 |
| REC 480   | Single Groove - Type 5  | 214N      | Stellite Tip | 1.443    | 4.291  | 0.3135 |
| REC 381   | Single Groove - Type 6  | 214N      | Stellite Tip | 1.444    | 4.325  | 0.3140 |
| REC 275   | Single Groove - Type 5  | 214N      | Stellite Tip | 1.450    | 3.953  | 0.2800 |
| REC 252   | Single Groove - Type 5  | 214N      | Stellite Tip | 1.450    | 4.440  | 0.2800 |
| REC 252/1 | Single Groove - Type 5  | 214N      | Stellite Tip | 1.450    | 4.440  | 0.2800 |
| REC 650   | Single Groove - Type 5  | 214N      | Stellite Tip | 1.450    | 4.545  | 0.3100 |
| REC 461   | Long Groove - Type 1    | 214N      | Stellite Tip | 1.453    | 4.593  | 0.3417 |
| REC 482   | Long Groove - Type 1    | 214N      | Stellite Tip | 1.456    | 3.607  | 0.2750 |
| REC 513   | Triple Groove - Type 7  | 214N      | Nil          | 1.456    | 4.028  | 0.2740 |
| REC 408   | Single Groove - Type 5  | 214N      | Stellite Tip | 1.456    | 4.429  | 0.3150 |
| REC 478   | Triple Groove - Type 7  | 214N      | Stellite Tip | 1.456    | 4.590  | 0.3105 |
| REC 478/1 | Triple Groove - Type 7  | 214N      | Stellite Tip | 1.456    | 4.590  | 0.3105 |
| REC 289   | Single Groove - Type 5  | 214N/EN52 | Harden Tip   | 1.456    | 4.850  | 0.3530 |
| REC 674   | Single Groove - Type 5  | 214N      | Stellite Tip | 1.457    | 3.700  | 0.3110 |
| REC 894   | Single Groove - Type 5  | 1.4882    | Nil          | 1.457    | 3.949  | 0.2160 |
| REC 916   | Single Groove - Type 5  | 1.4882    | Nil          | 1.457    | 4.074  | 0.2155 |
| REC 938   | Single Groove - Type 5  | 1.4882    | Nil          | 1.457    | 4.074  | 0.2155 |
| REC 688   | Single Groove - Type 5  | 214N      | Nil          | 1.457    | 4.085  | 0.2755 |
| REC 593/1 | Single Groove - Type 6  | 214N      | Stellite Tip | 1.457    | 4.184  | 0.2750 |
| REC 794   | Single Groove - Type 5  | 214N      | Stellite Tip | 1.457    | 4.230  | 0.2757 |
| REC 878   | Single Groove - Type 5  | 1.4882    | Nil          | 1.459    | 4.634  | 0.2795 |
| REC 109   | Single Groove - Type 5  | 214N      | Stellite Tip | 1.462    | 3.585  | 0.2798 |
| REC 906   | Single Groove - Type 5  | 1.4882    | Nil          | 1.463    | 4.610  | 0.2795 |
| REC 505   | Triple Groove - Type 7  | 214N      | Stellite Tip | 1.465    | 4.046  | 0.2750 |
| REC 389   | Single Groove - Type 5  | 214N      | Stellite Tip | 1.466    | 4.200  | 0.3140 |
| SV300-10  | Single Groove - Type 5  | 214N      | Stellite Tip | 1.468    | 3.582  | 0.2796 |
| REC 509   | Triple Groove - Type 7  | 214N      | Stellite Tip | 1.470    | 4.590  | 0.3105 |

| Part No.  | Groove Type (see Diag.) | Material    | Hardened Tip | Head Dia | Length | Stem   |
|-----------|-------------------------|-------------|--------------|----------|--------|--------|
| REC 597   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.470    | 5.210  | 0.2800 |
| REC 268   | Triple Groove - Type 8  | 214N        | Stellite Tip | 1.470    | 5.210  | 0.3152 |
| REC 901   | Single Groove - Type 5  | 214N/1.3343 | Harden Tip   | 1.472    | 3.858  | 0.3144 |
| REC 438   | Single Groove - Type 5  | 214N/1.3343 | Harden Tip   | 1.472    | 3.953  | 0.3140 |
| REC 438/1 | Single Groove - Type 5  | 214N/1.3343 | Harden Tip   | 1.472    | 3.958  | 0.3140 |
| REC 462   | Single Groove - Type 5  | 214N        | Nil          | 1.472    | 4.926  | 0.2805 |
| REC 792   | Single Groove - Type 5  | 214N        | Harden Tip   | 1.473    | 4.330  | 0.3140 |
| REC 706   | Triple Groove - Type 7  | 214N        | Stellite Tip | 1.476    | 3.720  | 0.2750 |
| SV300-9   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.478    | 3.582  | 0.2796 |
| REC 110   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.485    | 3.585  | 0.2798 |
| REC 118   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.485    | 3.585  | 0.2800 |
| REC 872   | Triple Groove - Type 8  | 214N        | Stellite Tip | 1.490    | 5.210  | 0.3152 |
| REC 485   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.496    | 3.582  | 0.2750 |
| REC 786   | Single Groove - Type 5  | 214N        | Harden Tip   | 1.496    | 3.760  | 0.3142 |
| REC 821   | Single Groove - Type 5  | 214N/1.3343 | Harden Tip   | 1.496    | 3.819  | 0.3142 |
| REC 821/1 | Single Groove - Type 5  | 214N/1.3343 | Harden Tip   | 1.496    | 3.819  | 0.3142 |
| REC 542   | Triple Groove - Type 7  | 214N        | Stellite Tip | 1.496    | 3.884  | 0.3140 |
| REC 404   | Triple Groove - Type 7  | 214N        | Stellite Tip | 1.496    | 3.937  | 0.3120 |
| REC 439   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.496    | 3.983  | 0.2760 |
| 38551     | Long Groove - Type 2    | 214N        | Stellite Tip | 1.496    | 3.930  | 0.2750 |
| REC 702/1 | Single Groove - Type 6  | 214N        | Stellite Tip | 1.496    | 4.184  | 0.2750 |
| REC 493   | Single Groove - Type 6  | 214N        | Stellite Tip | 1.496    | 4.409  | 0.3135 |
| REC 309   | Triple Groove - Type 7  | 214N        | Stellite Tip | 1.496    | 4.606  | 0.3128 |
| REC 898   | Single Groove - Type 5  | 1.4882      | Nil          | 1.496    | 4.669  | 0.2795 |
| REC 447   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.498    | 4.130  | 0.2800 |
| SV310-52  | Single Groove - Type 5  | 214N        | Stellite Tip | 1.498    | 4.365  | 0.3423 |
| REC 312   | Square Groove - Type 3  | 214N        | Stellite Tip | 1.500    | 4.078  | 0.3148 |
| REC 295   | Triple Groove - Type 8  | 214N        | Stellite Tip | 1.500    | 4.156  | 0.3145 |
| REC 430   | Triple Groove - Type 7  | 214N        | Stellite Tip | 1.500    | 4.230  | 0.3145 |
| REC 297   | Single Groove - Type 6  | 214N        | Stellite Tip | 1.500    | 4.352  | 0.3156 |
| REC 951   | Single Groove - Type 6  | 214N        | Stellite Tip | 1.500    | 4.352  | 0.3156 |
| REC 297/1 | Single Groove - Type 6  | 214N        | Stellite Tip | 1.500    | 4.392  | 0.3156 |
| REC 297T  | Single Groove - Type 8  | 214N        | Stellite Tip | 1.500    | 4.342  | 0.3156 |
| REC 214   | Triple Groove - Type 8  | 214N        | Stellite Tip | 1.500    | 4.425  | 0.3156 |
| REC 214N  | Triple Groove - Type 8  | 214N        | Stellite Tip | 1.500    | 4.425  | 0.3156 |
| REC 856   | Single Groove - Type 6  | 214N        | Stellite Tip | 1.500    | 4.433  | 0.3156 |
| REC 455   | Triple Groove - Type 8  | 214N        | Stellite Tip | 1.500    | 4.590  | 0.3115 |
| REC 529   | Single Groove - Type 5  | 214N        | Nil          | 1.500    | 4.764  | 0.2795 |
| SV320-58  | Single Groove - Type 5  | 214N        | Stellite Tip | 1.502    | 4.365  | 0.3154 |
| SV320-57  | Triple Groove - Type 7  | 214N        | Stellite Tip | 1.502    | 4.392  | 0.3154 |
| REC 387   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.515    | 4.203  | 0.3105 |
| REC 424   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.515    | 4.243  | 0.3105 |
| REC 111   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.525    | 3.580  | 0.2798 |
| REC 218   | Single Groove - Type 5  | EN52        | Harden Tip   | 1.528    | 3.872  | 0.3110 |
| REC 355   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.530    | 4.050  | 0.3110 |
| REC 269   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.531    | 3.953  | 0.2800 |
| REC 415   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.535    | 3.570  | 0.2750 |
| REC 444   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.535    | 3.983  | 0.2760 |
| REC 436   | Triple Groove - Type 8  | 214N        | Stellite Tip | 1.535    | 4.096  | 0.3140 |
| REC 553   | Single Groove - Type 5  | 214N        | Stellite Tip | 1.535    | 4.134  | 0.2760 |
| REC 737   | Single Groove - Type 6  | 214N        | Stellite Tip | 1.535    | 4.184  | 0.2750 |
| REC 434   | Triple Groove - Type 8  | 214N        | Stellite Tip | 1.535    | 4.192  | 0.3140 |

| Part No.  | Groove Type (see Diag.) | Material | Hardened Tip | Head Dia | Length | Stem   |
|-----------|-------------------------|----------|--------------|----------|--------|--------|
| REC 548   | Single Groove - Type 5  | 214N     | Stellite Tip | 1.535    | 4.600  | 0.2800 |
| REC 352   | Square Groove - Type 3  | 214N     | Stellite Tip | 1.535    | 4.715  | 0.2750 |
| REC 613   | Single Groove - Type 5  | 214N     | Stellite Tip | 1.536    | 3.634  | 0.3135 |
| REC 374   | Long Groove - Type 1    | 214N     | Stellite Tip | 1.537    | 3.673  | 0.2560 |
| REC 713   | Single Groove - Type 5  | 214N     | Stellite Tip | 1.550    | 4.130  | 0.2800 |
| SV322-6   | Triple Groove - Type 7  | 214N     | Stellite Tip | 1.553    | 4.367  | 0.3105 |
| REC 203   | Triple Groove - Type 7  | 214N     | Stellite Tip | 1.556    | 4.275  | 0.3110 |
| 57974     | Triple Groove - Type 7  | 214N     | Stellite Tip | 1.556    | 4.365  | 0.3110 |
| REC 306   | Triple Groove - Type 7  | 214N     | Stellite Tip | 1.556    | 4.365  | 0.3110 |
| REC 457   | Triple Groove - Type 7  | 214N     | Stellite Tip | 1.556    | 4.590  | 0.3105 |
| REC 201   | Long Groove - Type 1    | 214N     | Stellite Tip | 1.562    | 3.828  | 0.3110 |
| REC 957   | Triple Groove - Type 8  | 214N     | Stellite Tip | 1.562    | 3.828  | 0.3110 |
| REC 331   | Single Groove - Type 5  | EN52     | Harden Tip   | 1.562    | 4.400  | 0.3112 |
| REC 220   | Single Groove - Type 5  | EN52     | Harden Tip   | 1.563    | 3.905  | 0.3110 |
| REC 220/1 | Single Groove - Type 5  | 214N     | Stellite Tip | 1.563    | 3.905  | 0.3110 |
| REC 220/2 | Single Groove - Type 5  | 214N     | Stellite Tip | 1.563    | 4.005  | 0.3110 |
| SV310-1   | Single Groove - Type 5  | 214N     | Stellite Tip | 1.563    | 4.365  | 0.3433 |
| REC 142   | Single Groove - Type 5  | 214N     | Stellite Tip | 1.563    | 4.500  | 0.3420 |
| REC 372   | Triple Groove - Type 8  | 214N     | Stellite Tip | 1.570    | 3.850  | 0.3150 |
| REC 666   | Triple Groove - Type 7  | 214N     | Stellite Tip | 1.570    | 4.412  | 0.3130 |
| REC 416   | Single Groove - Type 5  | 214N     | Stellite Tip | 1.574    | 3.570  | 0.2750 |
| REC 500   | Single Groove - Type 5  | 214N     | Stellite Tip | 1.574    | 4.125  | 0.3135 |
| REC 414   | Single Groove - Type 6  | 214N     | Stellite Tip | 1.574    | 4.406  | 0.3135 |
| REC 775   | Triple Groove - Type 8  | 214N     | Null         | 1.575    | 3.575  | 0.3140 |
| REC 873   | Single Groove - Type 6  | 214N     | Null         | 1.575    | 4.072  | 0.2748 |
| REC 520   | Single Groove - Type 6  | 214N     | Stellite Tip | 1.575    | 4.409  | 0.3135 |
| REC 541   | Single Groove - Type 6  | 214N     | Stellite Tip | 1.575    | 4.685  | 0.3135 |
| REC 287   | Single Groove - Type 5  | 214N     | Harden Tip   | 1.575    | 4.850  | 0.3530 |
| REC 364   | Triple Groove - Type 8  | 214N     | Harden Tip   | 1.578    | 4.842  | 0.3150 |
| REC 247   | Single Groove - Type 5  | 214N     | Stellite Tip | 1.580    | 4.335  | 0.2800 |
| REC 310   | Triple Groove - Type 8  | 214N     | Null         | 1.582    | 4.250  | 0.3137 |
| REC 859   | Triple Groove - Type 7  | 214N     | Stellite Tip | 1.585    | 4.374  | 0.2745 |
| REC 250   | Single Groove - Type 5  | 214N     | Stellite Tip | 1.590    | 4.340  | 0.3105 |
| REC 241   | Single Groove - Type 5  | 214N     | Stellite Tip | 1.600    | 3.960  | 0.2800 |
| REC 724   | Single Groove - Type 5  | 214N     | Stellite Tip | 1.600    | 4.130  | 0.2800 |
| REC 245   | Triple Groove - Type 7  | 214N     | Stellite Tip | 1.600    | 4.145  | 0.3110 |
| REC 260   | Triple Groove - Type 7  | 214N     | Stellite Tip | 1.600    | 4.350  | 0.3110 |
| REC 284   | Single Groove - Type 4  | 214N     | Stellite Tip | 1.600    | 4.475  | 0.3410 |
| REC 399   | Long Groove - Type 2    | 214N     | Stellite Tip | 1.605    | 4.706  | 0.3425 |
| REC 338   | Single Groove - Type 5  | 214N     | Stellite Tip | 1.610    | 3.385  | 0.3140 |
| REC 223   | Single Groove - Type 5  | 214N     | Null         | 1.610    | 4.050  | 0.3110 |
| REC 622   | Single Groove - Type 5  | 214N     | Stellite Tip | 1.614    | 3.472  | 0.2750 |
| REC 527   | Single Groove - Type 5  | 214N     | Harden Tip   | 1.614    | 3.700  | 0.2746 |
| REC 343   | Single Groove - Type 5  | 214N     | Stellite Tip | 1.614    | 4.193  | 0.3140 |
| REC 467   | Single Groove - Type 6  | 214N     | Stellite Tip | 1.614    | 4.406  | 0.3135 |
| REC 673   | Single Groove - Type 6  | 214N     | Stellite Tip | 1.614    | 4.406  | 0.3135 |
| REC 522   | Single Groove - Type 6  | 214N     | Stellite Tip | 1.614    | 4.409  | 0.3135 |
| REC 291   | Single Groove - Type 5  | 214N     | Harden Tip   | 1.614    | 4.850  | 0.3530 |
| REC 365   | Triple Groove - Type 8  | 214N     | Harden Tip   | 1.618    | 4.842  | 0.3150 |
| REC 694   | Single Groove - Type 5  | 214N     | Stellite Tip | 1.620    | 4.285  | 0.3140 |
| REC 217   | Single Groove - Type 5  | 214N     | Stellite Tip | 1.620    | 4.540  | 0.3100 |
| REC 499   | Single Groove - Type 5  | 214N     | Stellite Tip | 1.620    | 4.706  | 0.3105 |

| Part No.  | Groove Type (see Diag.) | Material    | Hardened Tip  | Head Dia | Length | Stem       |
|-----------|-------------------------|-------------|---------------|----------|--------|------------|
| REC 890   | Long Groove - Type 2    | 214N        | Stellite Tip  | 1.620    | 4.706  | 0.3425     |
| REC 244   | Single Groove - Type 5  | 214N        | Stellite Tip  | 1.625    | 3.905  | 0.3110     |
| REC 243   | Single Groove - Type 5  | 214N        | Stellite Tip  | 1.625    | 3.960  | 0.2800     |
| REC 225   | Single Groove - Type 5  | 214N        | Nil           | 1.625    | 4.050  | 0.3110     |
| REC 204   | Triple Groove - Type 7  | 214N        | Stellite Tip  | 1.625    | 4.275  | 0.3110     |
| REC 292   | Single Groove - Type 5  | 214N        | Stellite Tip  | 1.625    | 4.335  | 0.2800     |
| REC 208W  | Triple Groove - Type 7  | 214N        | Stellite Tip  | 1.625    | 4.365  | 0.3110     |
| REC 210   | Triple Groove - Type 7  | 214N        | Stellite Tip  | 1.625    | 4.365  | 0.3140     |
| REC 208   | Triple Groove - Type 7  | 214N        | Stellite Tip  | 1.625    | 4.375  | 0.3110     |
| SV322-7   | Triple Groove - Type 7  | 214N        | Stellite Tip  | 1.625    | 4.384  | 0.3105     |
| SV310-2   | Single Groove - Type 5  | 214N        | Stellite Tip  | 1.628    | 4.365  | 0.3433     |
| REC 315   | Long Groove - Type 1    | 214N        | Stellite Tip  | 1.630    | 4.590  | 0.3410     |
| REC 380   | Single Groove - Type 4  | 214N        | Stellite Tip  | 1.644    | 4.350  | 0.3138     |
| REC 401   | Single Groove - Type 5  | 214N        | Nil           | 1.650    | 4.114  | 0.3100     |
| REC 886   | Single Groove - Type 5  | 214N        | Nil           | 1.650    | 4.164  | 0.3100     |
| REC 270   | Single Groove - Type 5  | 214N        | Stellite Tip  | 1.650    | 4.150  | 0.2800     |
| REC 614   | Single Groove - Type 5  | 214N        | Stellite Tip  | 1.650    | 4.200  | 0.2800     |
| REC 805   | Triple Groove - Type 8  | 214N        | Nil           | 1.653    | 3.575  | 0.3140     |
| REC 437/1 | Single Groove - Type 5  | 214N/1.3343 | Harden Tip    | 1.653    | 3.858  | 0.3140     |
| REC 711   | Triple Groove - Type 7  | 214N        | Stellite Tip  | 1.653    | 3.874  | 0.3135     |
| REC 390   | Triple Groove - Type 7  | 214N        | Stellite Tip  | 1.653    | 4.017  | 0.2750     |
| REC 924   | Triple Groove - Type 7  | EN52        | Barrel Harden | 1.653    | 4.375  | 0.3166     |
| REC 382   | Triple Groove - Type 7  | EN52        | Barrel Harden | 1.653    | 4.425  | 0.3166     |
| REC 517   | Triple Groove - Type 8  | 214N        | Stellite Tip  | 1.653    | 4.406  | 0.3130     |
| REC 288   | Single Groove - Type 5  | 214N        | Harden Tip    | 1.653    | 4.850  | 0.3540     |
| REC 900   | Single Groove - Type 5  | 214N/1.3343 | Harden Tip    | 1.654    | 3.858  | 0.3147     |
| REC 791   | Single Groove - Type 5  | 214N        | Harden Tip    | 1.654    | 4.331  | 0.3139     |
| REC 384   | Single Groove - Type 5  | 214N        | Stellite Tip  | 1.654    | 4.193  | 0.3140     |
| REC 944   | Single Groove - Type 3  | 214N        | Stellite Tip  | 1.654    | 4.579  | 0.3142     |
| SV320-1   | Triple Groove - Type 7  | 214N        | Stellite Tip  | 1.655    | 4.381  | 0.3164     |
| SV320-12  | Triple Groove - Type 7  | 214N        | Stellite Tip  | 1.655    | 4.482  | 0.3164     |
| REC 546   | Single Groove - Type 5  | 214N        | Stellite Tip  | 1.656    | 4.351  | 0.2800     |
| REC 479   | Single Groove - Type 4  | 214N        | Stellite Tip  | 1.670    | 3.928  | 0.3145     |
| REC 437   | Single Groove - Type 5  | 214N        | Harden Tip    | 1.670    | 3.962  | 0.3140     |
| REC 494   | Triple Groove - Type 7  | EN52        | Barrel Harden | 1.670    | 4.046  | 0.2750     |
| REC 596   | Single Groove - Type 5  | 214N        | Stellite Tip  | 1.670    | 5.333  | 0.2800     |
| REC 267   | Triple Groove - Type 8  | EN52        | Barrel Harden | 1.670    | 5.333  | 0.3160     |
| REC 911   | Single Groove - Type 5  | 214N        | Nil           | 1.673    | 4.285  | 0.3140     |
| REC 346   | Single Groove - Type 5  | 214N        | Nil           | 1.675    | 4.615  | 0.5 / 20 / |
| REC 265   | Single Groove - Type 5  | 214N        | Stellite Tip  | 1.680    | 4.325  | 0.2800     |
| REC 639   | Single Groove - Type 6  | 214N        | Stellite Tip  | 1.687    | 3.936  | 0.3540     |
| REC 460   | Long Groove - Type 1    | 214N        | Stellite Tip  | 1.687    | 4.593  | 0.3417     |
| REC 112   | Single Groove - Type 5  | 214N        | Stellite Tip  | 1.690    | 4.360  | 0.3430     |
| SV310-3   | Single Groove - Type 5  | 214N        | Stellite Tip  | 1.692    | 4.365  | 0.3433     |
| REC 441   | Single Groove - Type 5  | 214N        | Nil           | 1.693    | 4.086  | 0.2760     |
| REC 388   | Single Groove - Type 5  | 214N        | Stellite Tip  | 1.693    | 4.238  | 0.3145     |
| REC 477   | Triple Groove - Type 7  | 214N        | Stellite Tip  | 1.693    | 4.590  | 0.3115     |
| REC 477/1 | Single Groove - Type 5  | 214N        | Stellite Tip  | 1.693    | 4.590  | 0.3115     |
| REC 254   | Single Groove - Type 5  | 214N        | Nil           | 1.700    | 3.960  | 0.3110     |
| REC 470   | Single Groove - Type 5  | 214N        | Nil           | 1.700    | 3.972  | 0.3110     |
| REC 793   | Single Groove - Type 5  | 214N        | Stellite Tip  | 1.700    | 4.365  | 0.2760     |
| REC 581   | Triple Groove - Type 8  | EN52        | Barrel Harden | 1.700    | 5.333  | 0.3160     |

| Part No.  | Groove Type (see Diag.) | Material | Hardened Tip  | Head Dia | Length | Stem   |
|-----------|-------------------------|----------|---------------|----------|--------|--------|
| REC 504   | Triple Groove - Type 7  | EN52     | Barrel Harden | 1.712    | 4.046  | 0.2750 |
| REC 239   | Single Groove - Type 5  | 214N     | Stellite Tip  | 1.725    | 4.325  | 0.3105 |
| REC 367   | Square Groove - Type 3  | 214N     | Stellite Tip  | 1.732    | 4.575  | 0.3130 |
| SV310-5   | Single Groove - Type 5  | 214N     | Stellite Tip  | 1.748    | 4.365  | 0.3433 |
| REC 294   | Long Groove - Type 1    | EN52     | Harden Tip    | 1.750    | 4.156  | 0.3156 |
| REC 464   | Single Groove - Type 5  | 214N     | Stellite Tip  | 1.750    | 4.193  | 0.3140 |
| REC 429   | Long Groove - Type 1    | EN52     | Harden Tip    | 1.750    | 4.200  | 0.3156 |
| REC 296   | Single Groove - Type 6  | 214N     | Stellite Tip  | 1.750    | 4.375  | 0.3166 |
| REC 296/1 | Single Groove - Type 6  | 214N     | Stellite Tip  | 1.750    | 4.415  | 0.3166 |
| REC 296T  | Single Groove - Type 8  | 214N     | Stellite Tip  | 1.750    | 4.344  | 0.3166 |
| REC 213   | Triple Groove - Type 8  | EN52     | Barrel Harden | 1.750    | 4.425  | 0.3166 |
| 2581      | Triple Groove - Type 7  | EN52     | Barrel Harden | 1.750    | 4.425  | 0.3166 |
| REC 855   | Single Groove - Type 6  | 214N     | Stellite Tip  | 1.750    | 4.457  | 0.3166 |
| REC 216   | Single Groove - Type 5  | 214N     | Stellite Tip  | 1.750    | 4.540  | 0.3110 |
| REC 508   | Triple Groove - Type 7  | 214N     | Stellite Tip  | 1.750    | 4.590  | 0.3115 |
| REC 612   | Single Groove - Type 5  | 214N     | Stellite Tip  | 1.752    | 4.128  | 0.3140 |
| SV320-3   | Single Groove - Type 5  | 214N     | Stellite Tip  | 1.752    | 4.412  | 0.3166 |
| SV320-2   | Triple Groove - Type 7  | 214N     | Stellite Tip  | 1.752    | 4.417  | 0.3164 |
| REC 141   | Single Groove - Type 5  | 214N     | Stellite Tip  | 1.770    | 4.500  | 0.3425 |
| REC 286   | Single Groove - Type 5  | 214N     | Harden Tip    | 1.771    | 4.850  | 0.3540 |
| REC 358   | Triple Groove - Type 8  | 214N     | Harden Tip    | 1.772    | 4.842  | 0.3165 |
| REC 386   | Single Groove - Type 5  | 214N     | Stellite Tip  | 1.781    | 4.240  | 0.3110 |
| REC 423   | Single Groove - Type 5  | 214N     | Stellite Tip  | 1.781    | 4.280  | 0.3110 |
| REC 398   | Long Groove - Type 2    | 214N     | Stellite Tip  | 1.790    | 4.700  | 0.3425 |
| REC 400   | Single Groove - Type 5  | 214N     | Nil           | 1.800    | 4.181  | 0.3105 |
| REC 882T  | Triple Groove - Type 7  | EN52     | Barrel Harden | 1.800    | 4.375  | 0.3166 |
| REC 882/1 | Single Groove - Type 6  | 214N     | Stellite Tip  | 1.800    | 4.375  | 0.3166 |
| REC 950   | Single Groove - Type 6  | 214N     | Stellite Tip  | 1.800    | 4.375  | 0.3166 |
| REC 917   | Single Groove - Type 6  | 214N     | Stellite Tip  | 1.800    | 4.457  | 0.3166 |
| REC 454   | Triple Groove - Type 8  | 214N     | Stellite Tip  | 1.800    | 4.525  | 0.3166 |
| REC 290   | Single Groove - Type 5  | 214N     | Stellite Tip  | 1.800    | 4.540  | 0.3110 |
| REC 649   | Single Groove - Type 5  | 214N     | Stellite Tip  | 1.800    | 4.545  | 0.3100 |
| REC 498   | Single Groove - Type 5  | 214N     | Stellite Tip  | 1.800    | 4.700  | 0.3115 |
| REC 345   | Single Groove - Type 5  | 214N     | Nil           | 1.800    | 4.705  | 0.3730 |
| REC 308   | Triple Groove - Type 7  | EN52     | Barrel Harden | 1.810    | 4.590  | 0.3130 |
| REC 538   | Single Groove - Type 6  | 214N     | Stellite Tip  | 1.811    | 4.409  | 0.3135 |
| REC 492   | Single Groove - Type 5  | 214N     | Stellite Tip  | 1.811    | 4.409  | 0.3140 |
| REC 357   | Single Groove - Type 6  | 214N     | Harden Tip    | 1.811    | 4.842  | 0.3165 |
| REC 359   | Single Groove - Type 5  | 214N     | Harden Tip    | 1.811    | 4.850  | 0.3540 |
| REC 456   | Triple Groove - Type 7  | 214N     | Stellite Tip  | 1.843    | 4.590  | 0.3115 |
| REC 435   | Triple Groove - Type 8  | 214N     | Stellite Tip  | 1.850    | 4.096  | 0.3145 |
| REC 433   | Triple Groove - Type 8  | 214N     | Stellite Tip  | 1.850    | 4.192  | 0.3145 |
| REC 521   | Single Groove - Type 6  | 214N     | Stellite Tip  | 1.850    | 4.409  | 0.3135 |
| REC 283   | Single Groove - Type 4  | EN52     | Harden Tip    | 1.850    | 4.475  | 0.3420 |
| REC 889   | Long Groove Type 2      | 214N     | Stellite Tip  | 1.850    | 4.700  | 0.3425 |
| REC 451   | Triple Groove - Type 8  | 214N     | Stellite Tip  | 1.850    | 4.842  | 0.3165 |
| REC 913   | Triple Groove - Type 8  | 214N     | Stellite Tip  | 1.870    | 4.096  | 0.3145 |
| REC 552   | Single Groove - Type 5  | 214N     | Nil           | 1.875    | 4.181  | 0.3105 |
| REC 526   | Single Groove - Type 5  | 214N     | Nil           | 1.875    | 4.531  | 0.3410 |
| REC 491   | Single Groove - Type 5  | 214N     | Nil           | 1.875    | 5.072  | 0.3410 |
| REC 466   | Single Groove - Type 6  | 214N     | Stellite Tip  | 1.890    | 4.390  | 0.3135 |
| REC 519   | Single Groove - Type 6  | 214N     | Stellite Tip  | 1.890    | 4.409  | 0.3135 |

| Part No. | Groove Type (see Diag.) | Material | Hardened Tip | Head Dia | Length | Stem   |
|----------|-------------------------|----------|--------------|----------|--------|--------|
| REC 764  | Single Groove - Type 5  | 214N     | Nil          | 1.878    | 4.832  | 0.3410 |
| REC 540  | Single Groove - Type 6  | 214N     | Stellite Tip | 1.890    | 4.685  | 0.3135 |
| REC 412  | Single Groove - Type 6  | 214N     | Stellite Tip | 1.890    | 4.450  | 0.3135 |
| REC 665  | Triple Groove - Type 7  | 214N     | Stellite Tip | 1.898    | 4.396  | 0.3130 |
| REC 393  | Single Groove - Type 5  | 214N     | Nil          | 1.905    | 4.845  | 0.3410 |
| REC 539  | Single Groove - Type 6  | 214N     | Stellite Tip | 1.929    | 4.409  | 0.3135 |
| REC 465  | Single Groove - Type 6  | 214N     | Stellite Tip | 1.968    | 4.390  | 0.3135 |
| REC 413  | Single Groove - Type 6  | 214N     | Stellite Tip | 1.968    | 4.450  | 0.3135 |
| REC 716  | Single Groove - Type 5  | 214N     | Nil          | 2.000    | 4.181  | 0.3105 |
| REC 885  | Single Groove - Type 5  | 214N     | Nil          | 2.000    | 4.231  | 0.3105 |
| REC 763  | Single Groove - Type 5  | 214N     | Nil          | 2.012    | 4.820  | 0.3422 |
| REC 392  | Single Groove - Type 5  | 214N     | Nil          | 2.041    | 4.832  | 0.3423 |
| REC 525  | Single Groove - Type 5  | 214N     | Nil          | 2.103    | 4.662  | 0.3422 |
| REC 773  | Single Groove - Type 5  | 214N     | Nil          | 2.200    | 5.072  | 0.3420 |
|          |                         |          |              |          |        |        |