

# QUANTUM SEAL COMPANY OF AMERICA

## ***DIMENSIONAL PROGRESSION CHART*** ***OF MECHANICAL SEAL SIZES AND COMPOSTION***

All Quantum Seal catalog part numbers designated as seal replacement aftermarket part numbers are contained in this progression chart listing.

QUANTUM has developed the most comprehensive selection of seals in the sealing industry. There is a QUANTUM seal available for virtually any seal application. The QUANTUM seal line has been developed with over a quarter of a century of hands on application in pumps, compressors and related equipment requiring absolute sealing. QUANTUM seals are produced in the U.S.A.. In the production of QUANTUM seals, all machining of parts is performed under QUANTUM supervision, in assuring of the finest quality materials and workmanship available anywhere.

QUANTUM sets a new standard among the single spring seal companies by offering virtually any sealing face, metallurgy, or elastomer available in the industry. In addition to the industry seal replacement numbers shown in this progression chart, QUANTUM can produce any type of special material request at optional cost. QUANTUM can produce larger shaft sizes on request, with any type of seat combination.

### **QUANTUM single spring seals consist of the following designs.**

#### **Single spring over 3.000 shaft size C-D-E-K-R-T-U-316ss Machined Bar Stock.**

##### Seals produced from 304/316ss Metal Stampings:

TYPE A...	equal to Crane type 6 .....	Pressure limit up to	75lb. P.S.I.
TYPE B...	equal to Crane type 6a .....	Pressure limit up to	75lb. P.S.I.
TYPE C...	equal to Crane type 21.....	Pressure limit up to	200lb. P.S.I.
TYPE D...	equal to Crane type 2 .....	Pressure limit up to	250lb. P.S.I.
TYPE E...	equal to Crane type 1 .....	Pressure limit up to	250lb. P.S.I.
TYPE F...	equal to Sealol type F .....	Pressure limit up to	75lb. P.S.I.
TYPE G...	equal to Crane type 2100..	Pressure limit up to	200lb. P.S.I.
TYPE K...	equal to Crane type 21 dbl..	Pressure limit up to	200lb. P.S.I.
TYPE M...	equal to Sealol type M .....	Pressure limit up to	75lb. P.S.I.
TYPE Q...	equal to Crane type 11A....	Pressure limit up to	75lb. P.S.I.
TYPE R...	equal to Crane type 2dbl...	Pressure limit up to	250lb. P.S.I.
TYPE T...	equal to Crane type 1dbl...	Pressure limit up to	250lb. P.S.I.
TYPE U...	equal to Crane type 1A.....	Pressure limit up to	200lb. P.S.I.

##### Seals produced from machined 316ss, bronze or carbon bar stock:

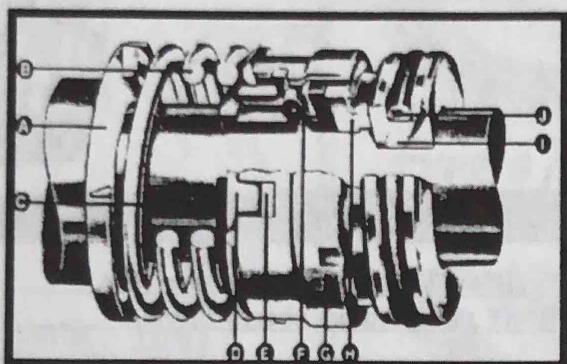
TYPE J.....	equal to Garlock PK .....	Pressure limit up to	250lb. P.S.I.
TYPE L1..	equal to Sealol type K.....	Pressure limit up to	1500lb. P.S.I.
TYPE L2..	equal to Sealol type L.....	Pressure limit up to	1500lb. P.S.I.
TYPE S....	equal to G.R. type GS.....	Pressure limit up to	200lb. P.S.I.
TYPE V....	equal to Crane type 8D.....	Pressure limit up to	200lb. P.S.I.
TYPE P...	equal to Crane type 8AB...	Pressure limit up to	500lb. P.S.I.
TYPE Y....	equal to Crane type 9A.....	Pressure limit up to	500lb. P.S.I.
TYPE Z....	equal to Sealol type S.....	Pressure limit up to	250lb. P.S.I.

Many other designs are produced to customer requirement.

The type 1 and 2 series are the most popular seals in use in general industrial applications throughout the USA. These series are available in most materials either balanced or in the standard unbalanced designs to handle the vast majority of industrial requirements.

**TYPES 1 AND 2 SERIES**  
GENERAL SERVICE SEALS

type 1 or type 2 is designed for most common sealing problems that incorporate synthetic rubber sealing members, hot and cold water, steam, many chemicals, acids and corrosives. In the standard unbalanced design, up to 350 psi in certain sizes, with up to 400° in viton elastomers. Up to 750 psi in certain sizes in the balanced design known as the type 1B and type 2B.

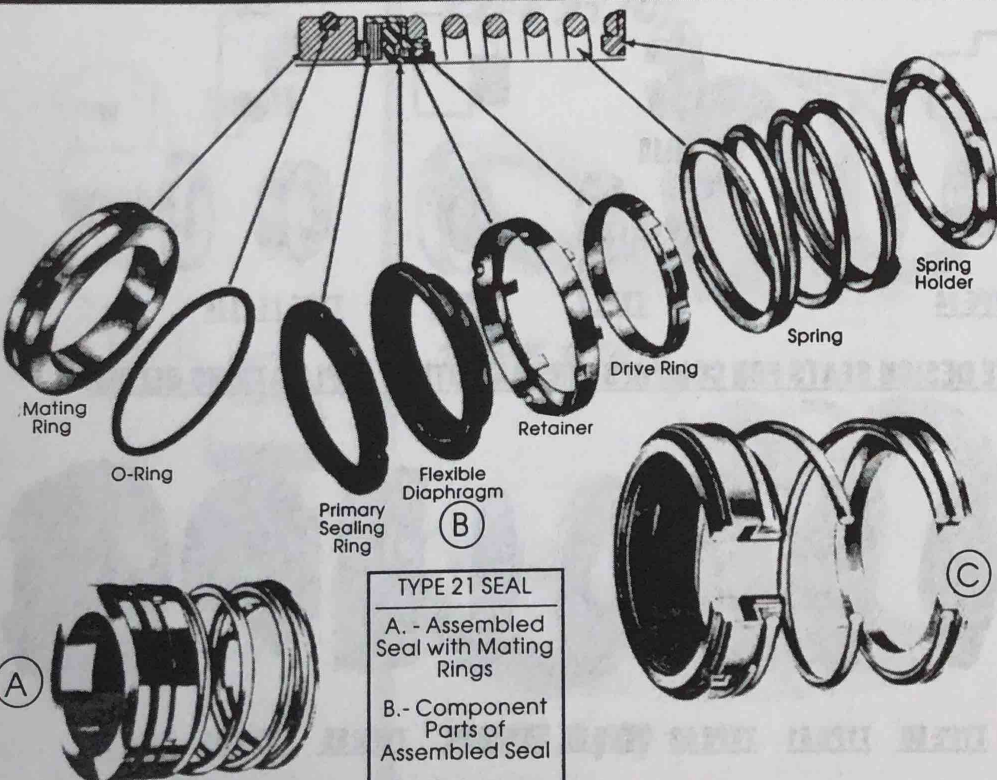
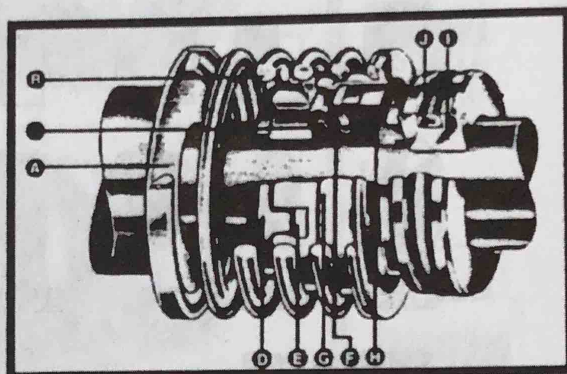


**TYPE 1**  
← Key to Illustration

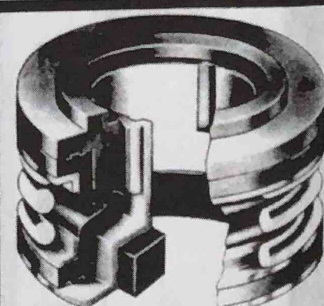
- |                      |                         |
|----------------------|-------------------------|
| a. Spring Holder     | f. Disc                 |
| b. Spring            | g. Retainer             |
| c. Elastomer Bellows | h. Primary Sealing Face |
| d. Drive Band        | i. Mating Ring          |
| e. Drive Notch       | j. O-Ring               |

**TYPE 2**  
→ Key to Illustrations

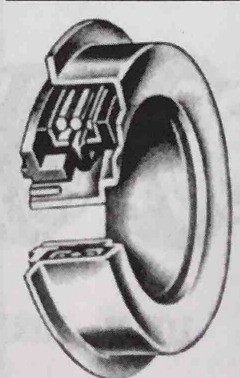
- |                      |                         |
|----------------------|-------------------------|
| a. Spring Holder     | f. Disc                 |
| b. Spring            | g. Retainer             |
| c. Elastomer Bellows | h. Primary Sealing Face |
| d. Drive Band        | i. Mating Ring          |
| e. Drive Notch       |                         |



**TYPE 21 SEAL**  
A. - Assembled Seal with Mating Rings  
B. - Component Parts of Assembled Seal  
C. - Cut-a-way View of Seal



**Type 6**  
Cut-A-Way View



**Type 6A**  
Cut-a-way View



# MATING FACE SEATS

## Cup Mounted Type

A low cost, high volume production ring with large sealing surface for rough bores over 63 RMS. Not for use in high temperature applications, as the ring cup acts as an insulator. Pressure range to 200 PSIG (14.06 kg/cm<sup>2</sup>).



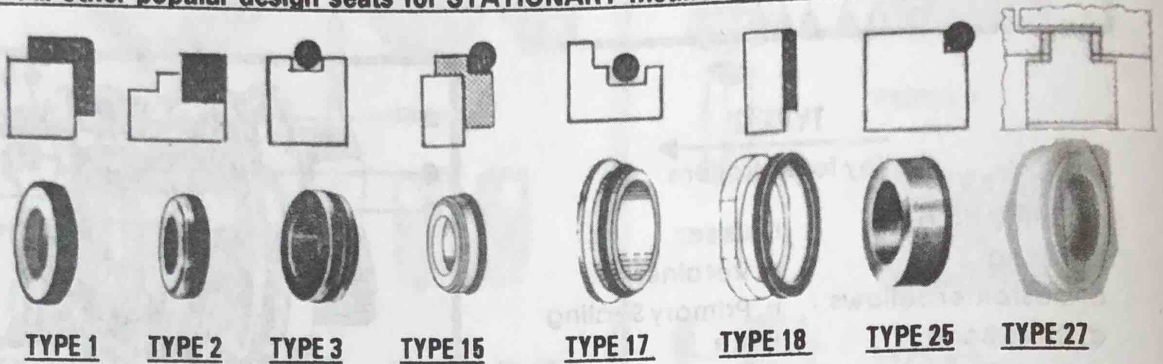
## O-Ring type

This type covers the greatest range of application requirements for general services. It is recommended for pressures to 600 PSIG (42 kg/cm<sup>2</sup>) and for temperature ranges dependent on available elastomers.

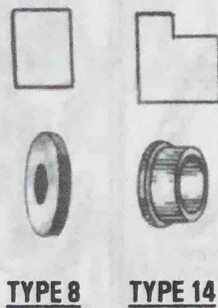


*The most popular stationary seats for single spring seals are the CUP MOUNT and O-RING styles pictured above.*

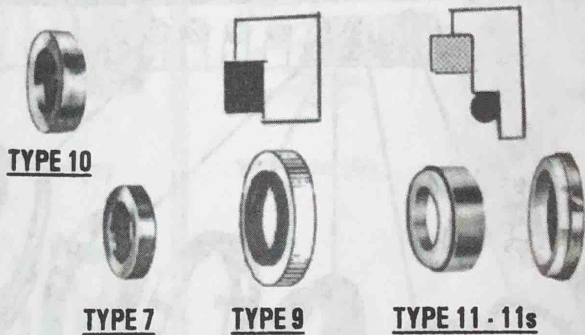
**All other popular design seats for STATIONARY mounting are shown below.**



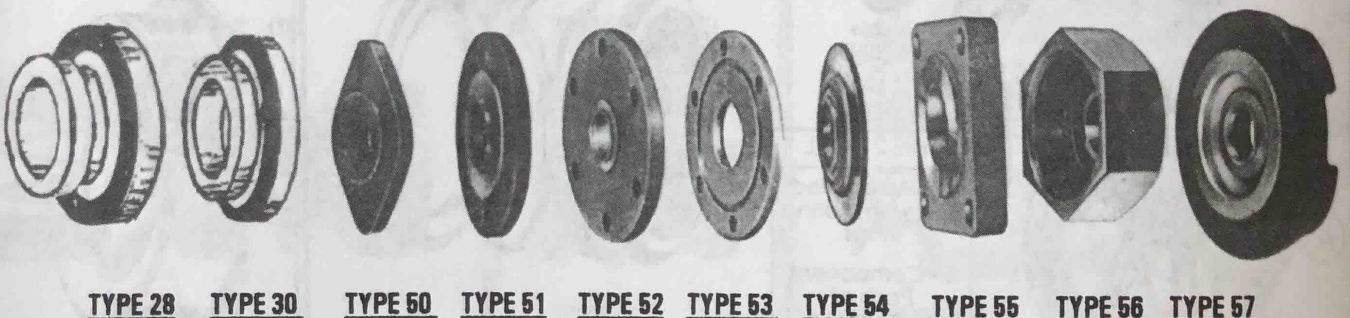
### SPECIAL DESIGNS



### SHAFT MOUNTED - ROTATING SEATS

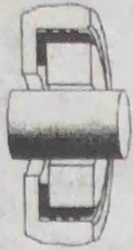


**ALL POPULAR PLATE DESIGN SEATS FOR COMPRESSORS AND OTHER APPLICATIONS BELOW.**

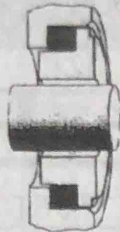


**PROFILE VIEWS OF TYPES 6 - 6a - 21 - 1 - 2 with CUP MOUNT SEATS**

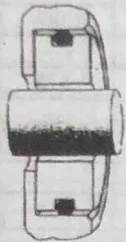
**BORE MOUNT**



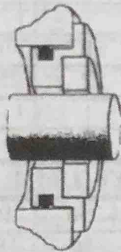
**Type 1**



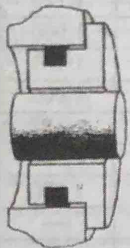
**Type 2**



**Type 3**



**Type 15**



**Type 17**



**Type 18**

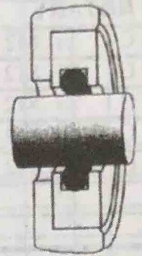


**Type 25**

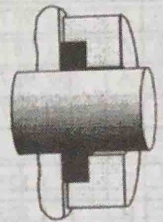
**SHAFT MOUNT**



**Type 6**



**Type 7**



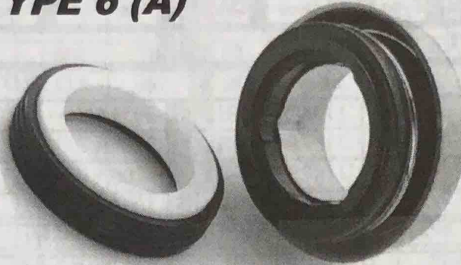
**Type 9**



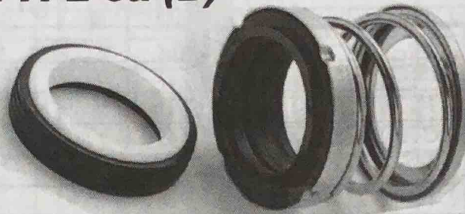
**Type 11**



**TYPE 6 (A)**



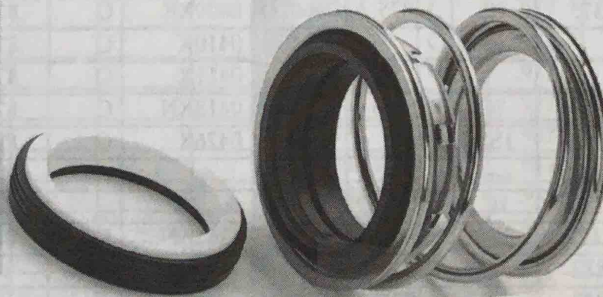
**TYPE 6a (B)**



**TYPE 21 (C)**



**TYPE 1 (E)**



**TYPE 2 (D)**



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## ***STANDARD SEAL FACE and SEAT MATERIALS***

The Standard Make up of the overwhelming majority of single spring mechanical seals is the rotary unit with CARBON insert and the Mating ring of either CERAMIC or METAL.

**CARBON** – Quantum produces all standard seals sold under industry standard part numbers with Metcar 400 or equivalent industrial grade carbon.

**CERAMIC** – All Cup mount style mating rings are minimum 95% purity Alox. All other style mating rings are minimum 99% Alox.

**METAL** – Quantum upgraded all metal seats from NiResist Cast iron to 316ss which does not rust or pit as does NiResist. 316ss is suitable for saltwater and many corrosive applications.

Note: BRONZE and CERAMIC inserts are sometimes used as an insert in the rotary in place of CARBON for certain applications.

### ***HARD FACE MATERIALS***

**SILICON CARBIDE (S.C.)** S.C. is the second hardest material below diamond and is used in severe chemical and abrasive applications. It is frequently mated with T.C., S.C., high purity CERAMIC or hard CARBON.

**TUNGSTEN CARBIDE (T.C.)** T.C. is close to S.C. in hardness and is used mainly in severe abrasive situations. It is usually mated with hard carbon, S.C., or high purity ceramic.

**17-4 ph Heat-Treated** 17-4 is a lower cost alternative to S.C., T.C., or COATED FACES when abrasion is not severe, or not subjected to corrosive chemical attack.

**COATED FACES** Metal seats, usually 316ss, may be “hard faced” by spray application of ALOX, stellite and other super hard coatings. Any hard face coating will usually be as expensive, and often more expensive than either S.C. or T.C., and have limitations dependent on chemical applications.

**ANTIMONY IMPREGNATED CARBON** is a super hard carbon that is used as an insert in the rotary in extremely demanding applications especially in highly abrasive applications.

### ***SEAL IDENTIFICATION***

See if you can identify the “TYPE” of seal rotary from the photo’s on the next page.

1. Then measure the shaft size, if you do not already know the shaft size. It is best to measure the O.D. of the actual shaft if possible. If not possible, measure the I.D. of the rotary bellows or O-ring at widest point.
2. Measure the counterbore O.D. of the stationary seat by measuring the I.D. of the bore of the Seat cavity that the seat fits into, of the pump or other appliance. If unable to measure the I.D. or cavity, measure the O.D. of the seat including the gasket or O-ring elastomer fitted to and around the seat.
3. Measure the total thickness of the seat, including gaskets on the cavity side if part of the seat.
4. Measure the free standing length of the Rotary seal EXCLUDING the seat. If possible, measure the length of the chamber the rotary compresses into, or length of fixed setting on the shaft. If unable to measure the chamber, or setting length on the shaft, place the rotary on a flat surface, in a standing position, measure the “free standing” height, then with your hand, compress the rotary to what feels like the final operating height, or “working length”, once installed in the chamber, or on the shaft. Then measure the compressed height. You will have a measurement for the free standing height and one for the compressed height.

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## ELASTOMERS

**AFLAS** - is the latest FLUOROELASTOMER developed that is suitable for use in the mechanical seal industry and is compounded for O-rings and Bellows. AFLAS is regarded as an upgrade to VITON in that it has a higher operating temperature limit and is suitable for a wider range of chemical use than VITON. AFLAS cost 2 – 3 times more than VITON, but is several times less than a similar PERFLUORELASTOMER product.

**BUNA N (nitrile)** - Nitrile is the standard elastomer used in all single spring seals produced by Quantum, and is a good all-purpose elastomer that combines many of the best qualities of the other elastomeric rubbers. This copolymer of butadiene and acrylonitrile furnishes excellent wear characteristics and swell resistance.

**NEOPRENE** - Neoprene is a synthetic elastomer with excellent resistance to dilute acids, alkalis, oil, some acids and petroleum. It has a tendency to absorb water. It is the elastomer of choice in refrigeration and air compressor applications.

**ETHYLENE PROPYLENE (EPR)** - EPR or NORDEL is a synthetic elastomer which affords excellent low and high temperature characteristics. It resists attack from a wide range of acids and strong alkalis and does not tend to absorb fluid or swell. It is frequently used in preference to BUNA or Neoprene as an upgrade.

**VITON** - Viton by Dupont is a synthetic FLUOROELASTOMER with proven fluid resistance at higher temperatures. Viton is the choice for the majority of severe applications, and may be operated continuously up to 400° F.

**PERFLUORELASTOMER (FFKM)** - is the ultimate elastomer compound in that it affords the highest temperature limit and widest range of chemical use. PERFLUORELASTOMERS have an infinite shelf life. FFKM is manufactured by several companies under the following brand names: **CHEMRAZ - PERLAST - GPLAST - SIMRIZ - KALREZ**. The general temperature limit for FFKM is 500 F, however Dupont produces special compounds up to 650 F.

**TEFLON** - Teflon is an inert material that has the best resistance to chemical attack of virtually any type and may be operated continuously up to 500° F. It is not regarded as a flexible elastomer, so has low friction resistance and must be utilized with a drive mechanism at even low pressure. QUANTUM elastomers are identified as follows:

Note: AFLAS has a **BLUE** I.D. mark, BUNA N has no mark, NEOPRENE has a **RED** I.D. mark, EPR has a **WHITE** I.D. mark, VITON has a **GREEN** I.D. mark, PERFLUORELASTOMER (unsealed) has a **GOLD** I.D. mark, and CHEMRAZ (unsealed) has a **SILVER** I.D. mark.

### TEMPERATURE LIMITS OF ELASTOMERS

<b><u>AFLAS</u></b>	<b><u>BUNA N</u></b>	<b><u>EPR</u></b>	<b><u>NEOPRENE</u></b>	<b><u>PERFLUORELASTOMER</u></b>	<b><u>TEFLON</u></b>	<b><u>VITON</u></b>
450 F.	225 F.	300 F.	175 F.	500 F.*	500 F.	400 F.
				* GO TO 650 F. SPECIAL COMPOUNDS		

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Despite the best efforts of QUANTUM, it is impossible to have every appliance that utilizes seals, cross referenced and in the Dimensional progression chart. There are many obsolete designs still in service and new designs since printing of the QUANTUM catalog or progression chart. If you do not locate your required seal in the QUANTUM progression chart, you can furnish QUANTUM with basic information that will enable QUANTUM to quote price and delivery.

## MATERIAL CODE DESIGNATIONS

QUANTUM SEAL COMPANY OF AMERICA (QUANTUM) uses a 3 digit letter code to designate material composition of Mechanical seals. Unlike competitor brands QUANTUM does NOT make 1<sup>st</sup>, 2<sup>nd</sup>, or 3<sup>rd</sup> grade material combinations. QUANTUM incorporates only 1<sup>st</sup> grade materials in all seals. As an example, U.S. SEAL COMPANY (U.S.) offers different lower grades of metal for rotary metal retainers and Springs. The U.S. type E is standard brass or 18-8 series stainless steel. The standard springs for many type E and D rotaries are plain steel or 18-8 series stainless. The standard metal for all QUANTUM seals is 304 stainless all metal parts including springs. The standard metal for all Type E rotaries and springs is 316SS.

U.S. and other competitors use Ni resist cast iron as standard metal for metal seats. QUANTUM uses 316ss as standard for all metal seats. Ni resist and 316ss are about the same hardness on the Rockwell scale. 316ss is far superior in every category of seal use than Ni resist as follows:

**Ni-resist is not suitable for salt water use. Ni resist is not suitable for food processing use. Ni resist is not suitable for chemical applications use. Ni resist is not rust proof.**

**316ss is suitable for Salt water use. 316ss is suitable for food processing use. 316ss is suitable for chemical applications use. 316ss is rust proof.**

316ss is the preferred choice for any and all uses requiring metal seats. QUANTUM innovated the use of 316ss in 1994 and is the only replacement market seal company that uses 316ss as the standard for all metal seats. All other replacement seal companies still utilize Ni resist as their standard metal seats. If you require 316ss metal seats, it may be offered as an option at very high additional costs from other seal companies. QUANTUM, producing metal seats of 316ss as the standard is able to offer QUANTUM seals at the same or lower costs than the lower quality Ni resist utilized by our competitors.

As QUANTUM uses only stainless steel as standard for all springs there is not need for a 5 digit material code to designate spring material as used by competitors. The QUANTUM code is 3 digits as shown below.

<u>ELASTOMERS</u>	<u>SEAL FACE (INSERT)</u>	<u>SEAT (MATING RING)</u>
AF - AFLAS	BR - BRONZE	CA,,,,CARBON
B - BUNA N (Nitrile)	CA - CARBON	CE...CERAMIC
E - EPR (EPDM)	CE - CERAMIC	CO...CHROME OXIDE
N - NEOPRENE	HC - HARD CARBON #	SC....SILICON CARBIDE
PF - PERFLUORELASTOMER*	SC - SILICON CARBIDE	SS....STAINLESS STEEL, 316ss
S - SILICONE	SS - STAINLESS STEEL	STE..STELLITE
TF - TEFLON	TC - TUNGSTEN CARBIDE	TC....TUNGSTEN CARBIDE
V - VITON		TFG..GLASS FILLED TEFLON
		17-4..17-4PH (Heat treated)

### TYPICAL MATERIAL CODE EXAMPLES

**B/CA/SS....PF/SC/TC.....AF/CA/SC.....V/CA/CE.....E/SC/SC.....TF/CA/TC**

Metal retainers/spring options such as Hasteloy C (H-C) or Monel (M) are shown in the "NOTE" column

\*CHEMRAZ or KALREZ

#HARD CARBON, Chemical grade or Antimony impregnated

# DIMENSIONAL CROSS-REFERENCE BY SHAFT SIZE

ROTARY			SEAT				MATERIAL	
Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>.312 (5/16") SHAFT</b>								
QS-4055	A	1.062	0.656	1C	1.000	0.312		B/CA/CE
QS-114	C	0.812	0.656	1C	1.000	0.312		B/CA/CE
QS-1064	C	0.812	0.812	3C	0.875	0.312		B/CA/CE
QS-1064V	C	0.812	0.812	3C	0.875	0.312		V/CA/CE
QS-3102X	C	0.812	0.640	---	---	---		B/CA/---
QS-3103X	C	0.812	0.640	1C	0.750	0.250		B/CA/CE
QS-9720	T9	0.843	0.687	2SC	0.875	0.312	316SS	CA/SC
<b>.375 (3/8") SHAFT</b>								
QS-377	A	0.937	0.640	---	---	---		B/CA/---
QS-511	A	0.937	0.640	1SS	0.875	0.218		B/CA/SS
QS-1614X	A	0.937	0.656	1C	1.000	0.312		B/CA/CE
QS-5055ATF	A	0.937	0.640	1CTF	0.875	0.219		TF/CA/CE
QS-03030X	A	0.937	0.640	1C	0.875	0.281		B/CA/CE
QS-03040X	A	0.937	0.640	1C	0.875	0.281		B/CA/CE
QS-671	B	1.125	0.375	1C	0.875	0.165		B/CA/CE
QS-671V	B	1.125	0.375	1C	0.875	0.165		V/CA/CE
QS-718	B	1.125	0.375	9SS	---	0.240		B/CA/SS
QS-1046A	B	1.125	0.375	1C	0.875	0.240		B/CA/CE
QS-1071	B	1.125	0.375	1C	0.875	0.312		B/CA/CE
QS-1615	B	1.125	0.375	1C	1.000	0.203		B/CA/CE
QS-1616	B	1.125	0.375	9C	---	0.190		B/CA/CE
QS-0301X	B	1.125	0.375	---	---	---		B/CA/---
QS-0302X	B	1.125	0.375	---	---	---		V/CA/---
QS-0303X	B	1.125	0.375	---	---	---		E/CA/---
QS-0304X	B	1.125	0.375	1C	0.875	0.160		B/CA/CE
QS-0308X	B	1.125	0.375	1B	0.875	0.160		B/CA/BR
QS-0309X	B	1.125	0.375	1SS	0.875	0.240		B/CA/SS
QS-0310X	B	1.125	0.375	1C	0.875	0.160		B/CA/CE
QS-0312X	C	0.812	0.750	1C	1.000	0.250		B/CA/CE
QS-0318X	C	0.812	0.750	1SS	0.875	0.284		B/CA/SS
QS-302XN	C	0.812	0.750	---	---	---		N/CA/---
QS-1025	C	0.812	0.588	1C	1.000	0.192		B/CA/CE
QS-1064AN	C	0.812	1.125	1SS	0.825	0.625		N/CA/SS
QS-1065	C	0.812	0.812	3C	0.875	0.312		B/CA/CE
QS-1065-E	C	0.812	0.812	3C	0.875	0.312		E/CA/CE
QS-1065V	C	0.812	0.812	3C	0.875	0.312		V/CA/CE
QS-1074A	C	0.812	0.600	1C	0.875	0.219		B/CA/CE



Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>.375 (3/8") (continued)</b>								
QS-1403A	C	0.812	0.812	1B	0.875	0.375		B/CA/BR
QS-2051AN	C	0.812	0.750	1B	1.312	0.312		N/CA/BR
QS-2400A	C	0.812	0.900	1C	1.000	0.375		B/CA/CE
QS-3082E	C	0.812	0.812	3C	0.875	0.312		E/CA/CE
QS-3100A	C	0.812	0.750	---	---	---		B/CA/---
QS-5025AN	C	0.812	0.900	1C	0.875	0.219		N/CA/CE
QS-7845A	C	0.812	0.812	---	---	---		B/CA/---
QS-030400X	C	0.812	0.750	1C	0.875	0.284		B/CA/CE
QS-1400A	L-1	0.750	0.850	8B	0.563	0.281		B/SS/BR
QS-160	M	0.906	SP	1C	1.000	0.375		B/CA/CE
QS-170	M	0.906	SP	2SS	1.000	0.375		B/CA/SS
<b>.437 (7/16") SHAFT</b>								
QS-117N	C	0.875	1.250	1C	1.000	0.312		N/CA/CE
QS-174	C	0.875	0.718	1SS	1.175	0.240		B/CA/SS
QS-1069AN	C	0.875	1.250	3SS	1.000	0.312		N/CA/SS
QS-1133N	C	0.875	0.750	1C	1.181	0.285		N/CA/CE
QS-2410AN	C	0.875	1.400	1C	1.000	0.703		N/CA/CE
QS-3578E	C	0.875	0.718	1C	1.175	0.240		E/CA/CE
QS-3578V	C	0.875	0.718	1C	1.175	0.240		V/CA/CE
QS-4800AN	C	0.875	0.750	1C	1.187	0.265		N/CA/CE
QS-8475A	C	0.875	0.750	1C	1.187	0.265		B/CA/CE
QS-9190A	C	0.875	1.250	3C	1.000	0.312		B/CA/CE
QS-0401X	C	0.875	0.750	---	---	---		B/CA/---
QS-0402XN	C	0.875	0.750	---	---	---		N/CA/---
QS-0404X	C	0.875	0.750	1C	1.000	0.312		B/CA/CE
QS-0409X	C	0.875	0.750	1C	1.181	0.254		B/CA/CE
QS-0409XE	C	0.875	0.750	1C	1.181	0.254		E/CA/CE
QS-0410X	C	0.875	0.750	3SS	1.181	0.250		B/CA/SS
QS-0411X	C	0.875	0.690	---	---	---		B/CA/---
QS-0418XN	C	0.875	0.750	3SS	1.181	0.250		N/CA/SS
QS-0426X	C	0.875	0.750	3C	1.000	0.312		B/CA/CE
QS-2727	G	0.866	0.769	15C	1.181	0.281		V/CA/SC
QS-4060	G	0.866	0.769	1C	1.181	0.281		B/CA/CE
QS-4061E	G	0.866	0.769	1C	1.181	0.281		E/CA/CE
QS-4062E	G	0.866	0.769	1C	1.181	0.281		E/CA/CE
QS-4063V	G	0.866	0.769	1C	1.181	0.281		V/CA/CE
QS-2727V	K	0.866	0.769	1C	1.181	0.281		V/CA/CE
QS-4265AN	L-2	0.812	1.625	---	---	---		N/SS/---
<b>.472 (12 MM) SHAFT</b>								
QS-2807	G	22MM	15MM	1C	23MM	6MM	316SS	B/CA/CE

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>.472 (12 MM) (continued)</b>								
QS-3000	G	22MM	15MM	1SC	26MM	5MM		B/SC/SC
QS-4000 CASC	G	22MM	15MM	1SC	23MM	6MM		E/CA/SC
QS-4225 CASC	G	22MM	34MM	1SC	23MM	6MM	316SS	E/CA/SC
<b>.500 (1/2") SHAFT</b>								
QS-162	A	1.062	0.656	1C	1.000	0.312		B/CA/CE
QS-280	A	1.062	0.687	2B	1.125	0.593		B/CA/BR
QS-298	A	1.062	0.656	---	---	---		B/CA/---
QS-506	A	1.062	0.656	1SS	1.000	0.290		B/CA/SS
QS-670	A	1.062	0.656	3SS	0.875	0.218		B/CA/SS
QS-1040A	A	1.062	0.656	1SS	1.000	0.312		B/CA/SS
QS-2800A	A	1.062	0.656	1C	1.125	0.593		B/CA/CE
QS-2800AV	A	1.062	0.656	1C	1.125	0.593		V/CA/CE
QS-3225	A	1.062	0.656	1C	1.000	0.312		B/CA/CE
QS-5120A	A	1.062	0.656	3SS	1.000	0.312		B/CA/SS
QS-8700A	A	1.062	0.656	11CS	1.000	0.312		B/CA/CE/SS
QS-0502X	A	1.062	0.656	---	---	---		B/CA/---
QS-0504X	A	1.062	0.656	1C	1.000	0.312		B/CA/CE
QS-0523X	A	1.062	0.656	3C	1.000	0.312		B/CA/CE
QS-142	B	1.125	0.537	1C	1.000	0.218		B/CA/CE
QS-142V	B	1.125	0.547	1C	1.000	0.218		V/CA/CE
QS-149	B	1.125	0.537	8SS	M.O.S.	0.062		B/CA/SS
QS-150	B	1.125	0.537	---	---	---		B/CA/---
QS-155	B	1.125	0.537	8SS	M.O.S.	0.125		B/CA/SS
QS-163	B	1.125	0.537	1C	1.000	0.312		B/CA/CE
QS-163V	B	1.125	0.547	1C	1.000	0.312		V/CA/CE
QS-164	B	1.125	0.537	9SS	M.O.S.	0.312		B/CA/SS
QS-165	B	1.125	0.537	9C	M.O.S.	0.312		B/CA/CE
QS-489	B	1.125	0.513	1C	1.250	0.406		B/CA/CE
QS-788	B	1.125	0.537	1SS	1.000	0.290		B/CA/SS
QS-1036A	B	1.125	0.537	1SS	1.000	0.312		B/CA/SS
QS-1037A	B	1.125	0.537	1C	1.000	0.560		B/CA/CE
QS-1073A	B	1.125	0.537	SP	M.O.S.	0.201		B/CA/SS
QS-1075A	B	1.125	0.537	11CS	M.O.S.	0.342		B/CA/CE-SS
QS-1078AE	B	1.125	0.537	1C	1.000	0.281		E/CA/CE
QS-1079A	B	1.125	0.537	7C	M.O.S.	0.295		B/CA/CE
QS-1082AV	B	1.125	0.537	7C	M.O.S.	0.295		V/CA/CE
QS-1098	B	1.125	0.537	1C	0.875	0.165		B/CA/CE
QS-1137	B	1.125	0.418	1C	1.000	0.187		B/CA/CE
QS-1149	B	1.125	0.537	9C	M.O.S.	0.212		B/CA/CE
QS-1500AV	B	1.125	0.537	---	---	---		V/CA/---
QS-1550A	B	1.125	0.537	8SS	M.O.S.	0.123		B/CA/SS
QS-1630AV	B	1.125	0.537	1C	1.000	0.312		V/CA/CE
QS-1640A	B	1.125	0.537	7SS	M.O.S.	0.295		B/CA/SS
QS-1643A	B	1.125	0.537	1C	1.000	0.279		B/CA/CE
QS-2726	B	1.131	0.693	1 Special	0.950	---	Unitized	B/CA/CE
QS-3048	B	1.125	0.547	1C	1.000	0.312		B/CA/CE
QS-4360	B	1.125	0.547	8SC	---	0.312		B/SC/SC

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>.500 (1/2") (continued)</b>								
QS-6300A	B	1.125	0.537	10SS	M.O.S.	0.342		B/CA/SS
QS-0506X	B	1.125	0.537	---	---	---		B/CA/---
QS-106	C	0.937	0.812	1SS	1.000	0.290		B/CA/SS
QS-106-E	C	0.937	0.812	1SS	1.000	0.312		E/CA/SS
QS-106V	C	0.937	0.812	1SS	1.000	0.312		V/CA/SS
QS-190	C	0.937	0.812	3SS	1.500	0.260		B/CA/SS
QS-221	C	0.937	0.781	2SS	1.375	0.187		B/CA/SS
QS-392	C	0.937	0.781	1C	0.938	0.225		B/CA/CE
QS-392-E-HC	C	0.937	0.718	1C	0.938	0.225	HC/++	E/CA/CE
QS-392-HC	C	0.937	0.718	1C	0.938	0.225	HC/++	B/CA/CE
QS-392V	C	0.937	0.781	1C	0.938	0.225		V/CA/CE
QS-392V-HC	C	0.937	0.781	1C	0.938	0.225	HC/++	V/CA/CE
QS-393	C	0.937	0.718	1SS	0.938	0.225		B/CA/SS
QS-400	C	0.937	0.718	---	---	---		B/CA/---
QS-400A	---	---	---	1C	0.938	0.225		B/---/CE
QS-400V	C	0.937	0.718	---	---	---		V/CA/---
QS-401	C	0.937	0.812	---	---	---		B/CA/---
QS-401A	C	0.937	0.812	1C	0.938	0.225		B/CA/CE
QS-420	C	0.906	0.718	2B	1.062	0.290		B/CA/BR
QS-504	C	0.937	0.718	2B	1.062	0.250		B/CA/BR
QS-631	C	0.937	0.812	1C	1.000	0.312		B/CA/CE
QS-632	C	0.937	0.812	1SS	1.000	0.290		B/CA/SS
QS-984	C	0.937	0.812	1SS	0.938	0.250		B/CA/SS
QS-985	C	0.937	0.812	1C	1.125	0.230		B/CA/CE
QS-1002	C	0.937	0.812	1C	1.000	0.312		B/CA/CE
QS-1002E	C	0.937	0.812	1C	1.000	0.312		E/CA/CE
QS-1002-HC	C	0.937	0.812	1C	1.000	0.312	HC/++	B/CA/CE
QS-1002V	C	0.937	0.812	1C	1.000	0.312		V/CA/CE
QS-1005AN	C	0.937	0.625	---	---	---		N/CA/---
QS-1012	C	0.937	0.812	1C	0.938	0.225		B/CA/CE
QS-1043	C	0.937	0.718	1C	1.000	0.218		B/CA/CE
QS-1043A	C	0.937	0.718	1B	1.062	0.344		B/CA/BR
QS-1050	C	0.937	0.812	---	---	---		B/CA/---
QS-1050A	C	0.937	0.718	1B	1.187	0.203		B/CA/BR
QS-1050AV	C	0.937	0.718	1B	1.187	0.203		V/CA/BR
QS-1055AN	C	0.937	0.718	1B	1.312	0.312		N/CA/BR
QS-1065AN	C	0.937	0.718	1SS	1.000	0.250		N/CA/SS
QS-1070A	C	0.937	0.718	1SS	1.062	0.312		B/CA/SS
QS-1084A	C	0.937	0.812	3SS	1.125	0.312		B/CA/SS
QS-1120	C	0.937	0.718	1C	1.062	0.312		B/CA/CE
QS-1900AN	C	0.937	0.718	3SS	1.500	0.297		N/CA/SS
QS-2050A	C	0.937	0.718	1B	1.187	0.203		B/CA/BR
QS-2138	C	0.937	0.605	SPSS	1.360	0.300		B/CA/SS
QS-2320AN	C	0.937	0.718	54	1.375	PLT		N/CA/SS
QS-2420A	C	0.937	1.200	1C	1.000	0.312		B/CA/CE
QS-2720	C	0.937	0.750	3C	1.000	0.312		B/CA/CE
QS-2730 CASC	C	0.937	0.591	1SC	1.000	0.312		E/CA/SC
QS-3052 HC	C	0.937	0.812	1C	0.938	0.225	HC	E/CA/CE

NOTE: PLT - PLATE SEAT  
HC - HARD CARBON  
++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>.500 (1/2") (continued)</b>								
QS-3172	C	0.937	0.812	3SS	1.000	0.312		B/CA/SS
QS-3197V	C	0.937	0.812	3C	1.000	0.312	316SS	V/CA/CE
QS-3226V	C	0.937	0.812	3SS	1.000	0.312		V/CA/SS
QS-3561	C	0.937	0.611	1C	0.938	0.250		B/CA/CE
QS-3563 CASC	C	0.937	0.611	1SC	0.938	0.250		E/CA/SC
QS-3583	C	0.922	0.750	1SS	1.000	0.312		B/CA/SS
QS-3735V	C	0.937	0.840	3SS	1.125	0.265		V/CA/SS
QS-3843V	C	0.937	0.625	1C	0.938	0.218		V/CA/CE
QS-3844V	C	0.937	0.625	1C	0.938	0.213		V/CA/CE
QS-3913	C	0.937	0.812	1C	1.000	0.312		B/CA/CE
QS-4003AE	C	0.937	0.718	---	---	---		E/CA/---
QS-4011A	C	0.937	0.718	11CS	0.875	0.205		B/CA/CESS
QS-4011AV	C	0.937	0.718	11CS	0.875	0.205		V/CA/CESS
QS-4045	C	0.937	0.812	3C	1.000	0.312		B/CA/CE
QS-4200AN	C	0.937	0.718	1B	1.062	0.250		N/CA/SS
QS-4214	C	0.937	0.594	1C	1.000	0.187		B/CA/CE
QS-4625AN	C	0.937	0.718	---	---	---		N/CA/---
QS-5040AN	C	0.937	0.656	1B	1.062	0.350		N/CA/BR
QS-5300A	C	0.937	USE EXISTING SPRING			---		B/CA/---
QS-5350A	C	0.937	0.656	51SS	0.995	PLT		B/CA/SS
QS-6321	C	0.937	0.840	3SS	1.125	0.265		B/CA/SS
QS-6710A	C	0.937	0.656	3SS	0.875	0.218		B/CA/SS
QS-6935A	C	0.937	0.875	1B	1.125	0.375		B/CA/BR
QS-7526A	C	0.937	0.605	1B	1.000	0.250		B/CA/BR
QS-7712	C	0.937	0.750	1C	1.125	0.237		B/CA/CE
QS-7740	C	0.937	0.640	1C	1.000	0.218		B/CA/CE
QS-9030AN	C	0.937	0.718	1SS	1.000	0.312		N/CA/SS
QS-9956A	C	0.937	0.656	1SS	1.125	0.250		B/CA/SS
QS-0507X	C	0.937	0.718	2B	1.062	0.375		B/CA/BR
QS-0536XV	C	0.937	0.718	2SC	1.093	0.190		V/CA/BR
QS-1539X	C	0.937	0.718	1SS	1.000	0.203		B/CA/SS
QS-0555X	C	0.937	0.812	1SS	1.000	0.312		B/CA/SS
QS-0589X	C	0.937	0.605	1SS	1.000	0.312		B/CA/SS
QS-05060X	C	0.937	0.605	1C	1.000	0.312		B/CA/CE
QS-4625AB	C	0.937	0.812	---	---	---		B/CA/---
QS-4625AC	C	0.937	0.796	---	---	---		B/CA/---
QS-4625ADV	C	0.937	0.812	---	---	---		V/CA/---
QS-168	E	0.937	0.831	1C	1.000	0.312		B/CA/CE
QS-666	E	0.937	0.831	1SS	1.000	0.290		B/CA/SS
QS-930	E	0.937	0.831	---	---	---		B/CA/---
QS-1045A	E	0.937	0.875	1C	1.000	0.316		
QS-1080A	E	0.937	0.831	3C	1.000	0.281		B/CA/CE
QS-1086A	E	0.937	1.140	1SS	1.000	0.312		B/CA/SS
QS-1628	E	0.937	1.140	14SS	1.000	0.656		B/CA/SS
QS-1629	E	0.937	1.140	Special	1.000	0.687		B/CA/SS
QS-2420AN	E	0.937	1.140	1C	1.000	3.120		N/CA/CE
QS-3896V	E	0.937	1.140	Special	1.000	0.687		V/CA/SS
QS-4451	E	0.937	1.140	Special	1.193	0.656		E/CA/SS
QS-6950AN	E	0.937	1.140	54	0.995	PLT		N/CA/SS
QS-1607	E	0.937	1.140	11CS	0.875	0.205		B/CA/CESS
QS-7948	E	0.937	1.140	Special	1.193	0.656		B/CA/SS

NOTE: PLT - PLATE SEAT



Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>.500 (1/2") (continued)</b>								
QS-7948V	E	0.937	1.140	Special	1.193	0.656		V/CA/SS
QS-0533X	E	0.937	1.090	2SS	1.250	0.576		B/CA/SS
QS-0590X	E	0.937	0.530	3SS	1.000	0.312		B/CA/SS
QS-9464A	F	1.109	0.590	8SS	1.188	0.406		B/CA/SS
QS-9465A	F	1.109	0.590	8SS	1.240	0.406		B/CA/SS
QS-9466A	F	1.109	0.590	8SS	1.240	0.406		B/CA/SS
QS-9467A	F	1.109	0.590	8C	1.238	0.302		B/CA/CE
QS-9471	F	1.109	0.590	8C	1.238	0.302		B/CA/CE
QS-2700	G	0.945	0.696	1C	1.000	0.312		B/CA/CE
QS-3001V	G	0.945	0.812	3C	1.000	0.312		V/CA/CE
QS-3002V	G	0.945	0.812	3C	1.000	0.312	316SS	V/CA/CE
QS-3003	G	0.945	0.656	3C	1.000	0.312		B/CA/CE
QS-3004 CASC	G	0.945	0.591	1SC	1.000	0.312		E/CA/SC
QS-3450V SCSC	G	0.945	0.812	1SC	1.000	0.312		V/SC/SC
QS-3568 SCSC	G	0.945	0.591	1SC	1.000	0.312		E/SC/SC
QS-4180	G	0.945	0.812	1C	1.000	0.312		B/CA/CE
QS-4349 SCSC	G	0.945	0.591	1SC	0.938	0.294		E/SC/SC
QS-4558V	G	0.945	0.591	1C	1.000	0.312		V/CA/CE
QS-1071A	K	0.937	0.975	---	---	---		B/CA/---
QS-1083A	K	0.937	1.125	1C	1.000	0.312		B/CA/CE
QS-1607	K	1.062	1.187	---	---	---		B/CA/---
QS-0583X	K	0.937	1.125	1SS	1.000	0.312		B/CA/SS
QS-0586X	K	0.937	1.125	---	---	---		B/CA/---
QS-2100AN	L-1	1.062	NO SPRG	52CA	---	PLT		N/CA/SS
QS-2102AN	L-1	1.062	NO SPRG	52	---	PLT		N/CA/SS
QS-7980AN	L-1	0.938	0.950	---	---	---		N/CA/---
QS-1015AN	L-2	0.875	1.225	---	---	---		N/CA/---
QS-1025A	L-2	0.875	1.675	---	---	---		B/CA/---
QS-1077AN	L-2	0.875	1.175	---	---	---		N/CA/---
QS-1090AN	L-3	0.938	1.625	---	---	---		N/CA/---
QS-663	Q	1.125	0.390	1C	1.000	0.312		B/CA/CE
QS-749	Q	1.125	0.390	1C	0.937	0.225		B/CA/CE
QS-1112	Q	1.125	0.390	9C	---	0.312		B/CA/CE
QS-1137	Q	1.125	0.418	1C	1.000	0.187		B/CA/CE
QS-1149	Q	1.125	0.408	9C	1.000	0.218		B/CA/CE
QS-1621	Q	1.125	0.390	9C	---	0.171		B/CA/CE

NOTE: PLT - PLATE SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>.500 (1/2") (continued)</b>								
QS-2713	Q	1.125	0.408	8C	0.906	0.213		B/CA/CE
QS-2721	Q	1.139	0.390	Special	1.000	0.213		B/CA/CE
QS-2732V	Q	1.125	0.408	8SS	1.000	0.218		V/CA/SS
QS-3033	Q	1.125	0.408	8C	1.000	0.218		B/CA/CE
QS-4038	Q	1.125	0.390	9C	---	0.218		B/CA/CE
QS-4064	Special	1.125	0.710	Special	0.950	Special	Unitized	B/CA/CE
QS-6313	Q	1.139	0.390	1C	1.019	0.208		B/CA/CE
QS-0510X	Q	1.125	0.390	---	---	---		B/CA/---
QS-0517XE	Q	1.125	0.390	1C	1.000	0.312		E/CA/CE
QS-4330A	T	0.937	1.425	1C	1.000	0.312		B/CA/CE
QS-0585X	T	0.937	1.425	1SS	1.000	0.312		B/CA/SS
QS-0587X	T	0.937	1.425	---	---	---		B/CA/---
QS-9012	T9	1.031	0.812	---	---	---	316SS	B/CA/---
QS-3800V	8-1	1.031	0.812	3SS	1.000	0.312	++316SS	V/CA/SS
QS-3729	8-1 Special	0.875	0.527	3SS	1.000	0.312	316SS	B/CA/SS
QS-4588V CASC	8-1 Special	0.875	0.527	1SC	1.000	0.312	316SS	V/CA/SC
QS-7727V	8-1 Special	0.875	0.527	3SS	1.000	0.312	316SS	V/CA/SS
<b>.562 (9/16") SHAFT</b>								
QS-1061V	A	1.218	0.718	1C	1.250	0.406		V/CA/CE
QS-500	C	1.062	0.812	2B	1.031	0.312		B/CA/BR
QS-558	C	1.062	0.812	1SS	1.000	0.290		B/CA/SS
QS-928	C	1.062	0.812	---	---	---		B/CA/---
QS-1095AN	C	1.062	0.750	52	---	PLT		N/CA/SS
QS-1096AN	C	1.062	0.750	---	---	---		N/CA/---
QS-1105AN	C	1.062	0.750	1SS	1.000	0.312		N/CA/SS
QS-3542V	C	1.000	0.808	3SS	1.031	0.312		V/CA/SS
QS-3911A	C	1.062	0.875	50	0.938	PLT		B/CA/PLT
QS-4292	C	1.000	0.808	3SS	1.031	0.312		B/CA/SS
QS-4335AN	C	1.062	0.812	3SS	1.031	0.281		N/CA/SS
QS-9705AN	C	1.062	0.700	1SS	1.312	0.312		N/CA/SS
QS-05607X	C	1.062	0.812	1C	1.187	0.343		B/CA/CE
QS-05610X	C	1.062	0.875	---	---	---		B/CA/---
QS-05613X	C	1.062	0.800	3SS	1.125	0.410		B/CA/SS
QS-9464A	F	1.109	0.590	8SS	1.188	0.406		B/CA/SS
QS-9465A	F	1.109	0.590	8SS	1.240	0.406		B/CA/SS
QS-9466A	F	1.109	0.590	8SS	1.240	0.406		B/CA/SS
QS-9467A	F	1.109	0.590	8C	1.238	0.302		B/CA/CE
QS-9471	F	1.109	0.590	8C	1.238	0.302		B/CA/CE

NOTE:      ++      - SLOTTED SEAT  
              PLT      - PLATE SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>.562 (9/16") (continued)</b>								
QS-1607	K	1.062	1.187	---	---	---		B/CA/---
QS-2100AN	L-1	1.062	NO SPRG	52CA	---	PLT		N/CA/PLT
QS-2102AN	L-1	1.062	NO SPRG	52	---	PLT		N/CA/PLT
QS-7980AN	L-1	0.938	0.950	---	---	---		N/CA/---
QS-1090AN	L-2	0.938	1.625	---	---	---		N/CA/---
<b>.578 SHAFT</b>								
QS-1408A	C	1.062	0.670	1C	1.250	0.406		B/CA/CE
<b>.590 (15MM) SHAFT</b>								
QS-3093 HC	C	1.062	0.875	1C	1.250	0.406	HC	B/CA/CE
QS-3140V	C	1.062	0.875	1C	1.250	0.406		V/CA/CE
QS-7520 HC	C	1.062	0.875	1SS	1.250	0.406	HC	B/CA/SS
QS-7520V HC	C	1.062	0.875	1SS	1.250	0.406	HC	V/CA/SS
QS-7553	C	1.062	0.875	1C	1.250	0.406		B/CA/CE
QS-129	D	1.312	0.875	1C	1.250	0.406		B/CA/CE
QS-138	D	1.312	1.156	5SS	1.093	0.406		B/CA/SS
QS-1675	D	1.312	0.875	1SS	1.250	0.406		B/CA/SS
QS-3192V HC	D	1.312	0.875	1SS	1.250	0.406	HC	V/CA/SS
QS-5938A	D	1.312	0.875	3SS	1.170	0.250		B/CA/SS
QS-20719XN	D	1.312	1.043	---	---	---		N/CA/---
QS-05902X	D	1.312	0.125	---	---	---		B/CA/---
<b>.594 SHAFT</b>								
QS-1110AN	L-1	1.000	1.130	---	---	---		N/CA/---
<b>.625 (5/8") SHAFT</b>								
QS-100	A	1.218	0.718	1C	1.187	0.343		B/CA/CE
QS-100-E	A	1.218	0.718	1C	1.187	0.343		E/CA/CE
QS-100-SC-SC	A	1.218	0.718	1SC	1.187	0.343		B/SC/SC
QS-100V	A	1.218	0.718	1C	1.187	0.343		V/CA/CE
QS-100V-HC	A	1.218	0.718	1C	1.187	0.343	HC	V/CA/CE
QS-100V-SC-SC	A	1.218	0.718	1SC	1.187	0.343		V/SC/SC
QS-100VOR	A	1.218	0.718	3C	1.187	0.343		V/CA/CE
QS-148	A	1.218	0.718	1SS	1.125	0.500		B/CA/SS
QS-153	A	1.218	0.811	1SS	1.250	0.406		B/CA/SS
QS-153V	A	1.218	0.811	1SS	1.250	0.406		V/CA/SS
QS-153VOR	A	1.218	0.811	3SS	1.250	0.406		V/CA/SS
QS-166	A	1.218	0.811	1C	1.187	0.343		B/CA/CE

NOTE: PLT - PLATE SEAT  
HC - HARD CARBON

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>.625 (5/8") (continued)</b>								
QS-198	A	1.218	0.718	8SS	---	0.125		B/CA/SS
QS-200	A	1.218	0.718	1C	1.250	0.406		B/CA/CE
QS-200-E	A	1.218	0.718	1C	1.250	0.406		E/CA/CE
QS-200-SC-SC	A	1.218	0.718	1SC	1.250	0.406		B/SC/SC
QS-200V	A	1.218	0.718	1C	1.250	0.406		V/CA/CE
QS-200V-HC	A	1.218	0.718	1C	1.250	0.406	HC	V/CA/CE
QS-200V-SC-SC	A	1.218	0.718	1SC	1.250	0.406		V/SC/SC
QS-200VOR	A	1.218	0.718	3C	1.250	0.406		V/CA/CE
QS-218	A	1.218	0.718	---	---	---		B/CA/---
QS-232	A	1.218	0.718	3SS	1.207	0.250		B/CA/SS
QS-293	A	1.218	0.718	P-IN	0.815	0.312		B/CA/SS
QS-293E	A	1.218	0.718	14SS	0.814	0.312		E/CA/SS
QS-293V	A	1.218	0.718	14SS	0.814	0.312		V/CA/SS
QS-299	A	1.218	0.718	---	---	---		B/CA/---
QS-300	A	1.218	0.718	1C	1.250	0.406		B/CA/CE
QS-300V	A	1.218	0.718	3C	1.250	0.406		V/CA/CE
QS-300VOR	A	1.218	0.718	3C	1.250	0.406		V/CA/CE
QS-372	A	1.218	0.718	1SS	1.250	0.250		B/CA/SS
QS-425	A	1.218	0.812	1C	1.250	0.406		B/CA/CE
QS-442	A	1.218	0.718	1C	1.312	0.250		B/CA/CE
QS-501	A	1.218	0.811	1C	1.250	0.406		B/CA/CE
QS-501V	A	1.218	0.811	1C	1.250	0.406		V/CA/CE
QS-501VOR	A	1.218	0.811	3C	1.250	0.406		V/CA/CE
QS-507	A	1.218	0.718	1SS	1.250	0.406		B/CA/SS
QS-507V	A	1.218	0.718	3C	1.250	0.406		V/CA/SS
QS-507VOR	A	1.218	0.718	3SS	1.250	0.406		V/CA/SS
QS-516	A	1.218	0.718	1C	1.250	0.406		B/CA/CE
QS-518	A	1.218	0.718	1SS	1.187	0.288		B/CA/SS
QS-518-SC-SC	A	1.218	0.718	1SC	1.187	0.296		B/SC/SC
QS-524	A	1.218	0.718	1SS	1.250	0.406		B/CA/SS
QS-524E	A	1.218	0.718	1SS	1.250	0.406		E/CA/SS
QS-528	A	1.218	0.718	1C	1.375	0.562		B/CA/CE
QS-528V	A	1.218	0.718	1C	1.375	0.562		V/CA/CE
QS-551	A	1.218	0.718	1C	1.250	0.283		B/CA/CE
QS-628	A	1.218	0.718	3SS	1.250	0.406		B/CA/SS
QS-637	A	1.218	0.718	3C	1.250	0.406		B/CA/CE
QS-680	A	1.218	0.718	1C	1.187	0.288		B/CA/CE
QS-701	A	1.218	0.718	1SS	1.187	0.288		B/CA/SS
QS-701-E	A	1.218	0.718	1SS	1.187	0.288		E/CA/SS
QS-701V	A	1.218	0.718	1SS	1.187	0.288		V/CA/SS
QS-702	A	1.218	0.718	1C	1.187	0.288		B/CA/CE
QS-702-E	A	1.218	0.718	1C	1.187	0.288		E/CA/CE
QS-702V	A	1.218	0.718	1C	1.187	0.288		V/CA/CE
QS-702V-HC	A	1.218	0.718	1C	1.187	0.288	HC	V/CA/CE
QS-656-711	A	1.218	0.718	3C	1.187	0.343		B/CA/CE
QS-711	A	1.218	0.718	3C	1.187	0.343		B/CA/CE
QS-711CA-AV	A	1.218	0.718	3SS	1.187	0.343		V/CA/SS
QS-896	A	1.218	0.718	3C	1.187	0.343		B/CA/CE
QS-920	A	1.218	0.718	1SS	1.141	0.312		B/CA/SS
QS-952	A	1.218	0.811	1C	1.250	0.406		B/CA/CE
QS-952-HC	A	1.218	0.843	1C	1.250	0.406	HC	B/CA/CE
QS-953	A	1.218	0.811	1C	1.187	0.343		B/CA/CE

NOTE: HC - HARD CARBON



Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>.625 (5/8") (continued)</b>								
QS-954	A	1.218	0.811	1SS	1.250	0.406		B/CA/SS
QS-954V	A	1.218	0.843	1SS	1.250	0.406		V/CA/SS
QS-955	A	1.218	0.811	1SS	1.187	0.288		B/CA/SS
QS-957	A	1.218	0.718	1C	1.187	0.343		B/CA/CE
QS-1006A	A	1.218	0.718	8C	1.094	0.312		B/CA/CE
QS-1061A	A	1.218	0.718	1TC	1.250	0.406		B/CA/TC
QS-1061AV	A	1.218	0.718	1TC	1.250	0.406		V/CA/TC
QS-1114	A	1.218	0.811	P-IN	1.096	0.312		B/CA/SS
QS-1116AV	A	1.218	0.718	1SS	1.250	0.437		V/CA/SS
QS-1121A	A	1.218	0.718	1C	1.375	0.461		B/CA/CE
QS-1121AV	A	1.218	0.718	1C	1.375	0.461		V/CA/CE
QS-1126A	A	1.218	0.718	1C	1.150	0.295		B/CA/CE
QS-1150	A	1.218	0.718	1SS	1.187	0.343		B/CA/SS
QS-1160A	A	1.218	0.718	3SS	1.125	0.459		B/CA/SS
QS-1185A	A	1.218	0.812	1C(TF)	1.250	0.406		B/CA/CETF
QS-1212A	A	1.218	0.812	8C	1.081	0.312		B/CA/CE
QS-1240A	A	1.218	0.718	3C	1.187	0.312		B/CA/CE
QS-1240AV	A	1.218	0.718	3C	1.187	0.341		V/CA/CE
QS-1241AE	A	1.218	0.718	3C	1.187	0.341		E/CA/CE
QS-1243AE	A	1.218	0.718	1SS	1.250	0.250		E/CA/SS
QS-1244A	A	1.218	0.718	3C	1.187	0.406		B/CA/CE
QS-1249A	A	1.218	0.875	1C	1.250	0.437		B/CA/CE
QS-1903V SCSC	A	1.218	0.811	1SC	1.250	0.406		V/SC/SC
QS-2000AE	A	1.218	0.718	1C	1.250	0.406		E/CA/CE
QS-2002AV	A	1.218	0.718	1SS	1.250	0.406		V/CA/SS
QS-2131	A	1.218	0.718	31C	---	---	#	B/CA/CE
QS-2131V	A	1.218	0.718	31C	---	---	#	V/CA/CE
QS-2172	A	1.218	0.718	1C	---	0.562	#	B/CA/CE
QS-2204V CATC	A	1.218	0.718	1TC	1.250	0.406		V/CA/TC
QS-2321A	A	1.218	0.718	3SS	1.187	0.250		B/CA/SS
QS-3000A	A	1.218	0.950	1C	1.250	0.406		B/CA/CE
QS-3000AV	A	1.218	0.950	1C	1.250	0.406		V/CA/CE
QS-3228V	A	1.218	0.718	1C	1.250	0.406	316SS	V/CA/CE
QS-3816V	A	1.218	0.811	1C	1.250	0.406	HC	V/CA/SS
QS-3864V	A	1.218	0.811	1C	1.250	0.406		V/CA/CE
QS-3977V SCSC	A	1.218	0.734	1SC	1.187	0.296		V/SC/SC
QS-4027E	A	1.218	0.718	1C	1.250	0.155		E/CA/CE
QS-4165A	A	1.218	0.718	1B	1.312	0.343		B/CA/BR
QS-4240	A	1.218	0.718	1C	1.187	0.296		B/CA/CE
QS-4284V CASC	A	1.218	0.718	1SC	1.187	0.296		V/CA/SC
QS-4355 SCTC	A	1.218	0.718	1TC	1.250	0.406		B/SC/TC
QS-4371V	A	1.218	0.811	1C	1.250	0.406	HC	V/CA/CE
QS-4424V	A	1.218	0.718	1C	1.250	0.155		V/CA/CE
QS-4462	A	1.218	0.718	1C	1.187	0.296		B/CA/CE
QS-4705A	A	1.218	0.718	1C	1.320	0.343		B/CA/CE
QS-5200A	A	1.218	0.718	1SS	1.125	0.484		B/CA/SS
QS-5955A	A	1.218	0.718	1SS	1.312	0.469		B/CA/SS
QS-7000AE	A	1.218	0.718	1C	1.187	0.296		E/CA/CE

NOTE: HC - HARD CARBON  
# - MOUNTS IN PLASTIC

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>.625 (5/8") (continued)</b>								
QS-8710A	A	1.218	0.718	11CS	1.250	0.406		B/CA/CESS
QS-9070A	A	1.218	0.718	1SS	1.250	0.250		B/CA/SS
QS-9071A	A	1.218	0.718	1C	1.250	0.250		B/CA/CE
QS-9900A	A	1.218	0.718	1B	1.312	0.312		B/CA/BR
QS-0619X	A	1.218	0.812	---	---	---		B/CA/---
QS-0630X	A	1.218	0.812	---	---	---		B/CA/---
QS-0672XX	A	1.218	0.718	1SC	1.250	0.406		B/CA/SC
QS-06987XX	A	1.218	0.718	1TC	1.187	0.343		B/CA/TC
QS-113	B	1.437	0.615	1C	1.093	0.218		B/CA/CE
QS-151	B	1.437	0.615	1C	1.375	0.288		B/CA/CE
QS-200A	B	1.437	0.615	1C	1.250	0.283		B/CA/CE
QS-202	B	1.437	0.615	11CS	---	0.375		B/CA/CESS
QS-202V	B	1.437	0.615	11CS	---	0.375		V/CA/CESS
QS-233	B	1.437	0.615	1C	1.312	0.250		B/CA/CE
QS-260	B	1.437	0.615	11CS	---	0.375		B/CA/CESS
QS-409	B	1.437	0.615	8SS	---	0.187		B/CA/SS
QS-411	B	1.437	0.615	11CS	---	0.487		B/CA/CESS
QS-411P	B	1.437	0.615	11CS	---	0.487		E/CA/CESS
QS-411V	B	1.437	0.615	11CS	---	0.487		V/CA/CESS
QS-414	B	1.437	0.615	11CS	---	0.328		B/CA/CESS
QS-447	B	1.437	0.615	9C	---	0.215		B/CA/CE
QS-447V	B	1.437	0.615	9C	---	0.215		V/CA/CE
QS-447V-HC	B	1.437	0.615	9C	---	0.215	HC	V/CA/CE
QS-451	B	1.437	0.615	9SS	---	0.320		B/CA/SS
QS-452	B	1.437	0.615	9C	---	0.312		B/CA/CE
QS-452V	B	1.437	0.615	9C	---	0.312		V/CA/CE
QS-453	B	1.437	0.615	9SS	---	0.215		B/CA/SS
QS-453V	B	1.437	0.615	9SS	---	0.215		V/CA/SS
QS-522	B	1.437	0.615	1SS	1.187	0.288		B/CA/SS
QS-600	B	1.437	0.615	1C	1.187	0.343		B/CA/CE
QS-600V	B	1.437	0.615	3C	1.187	0.343		V/CA/CE
QS-600V-HC	B	1.437	0.615	1C	1.187	0.343	HC	V/CA/CE
QS-616	B	1.437	0.615	1SS	1.187	0.288		B/CA/SS
QS-642	B	1.437	0.615	---	---	---		B/CA/---
QS-700	B	1.437	0.615	1C	1.187	0.288		B/CA/CE
QS-712	B	1.437	0.615	3SS	1.250	0.406		B/CA/SS
QS-715	B	1.437	0.615	3C	1.250	0.406		B/CA/CE
QS-716	B	1.437	0.615	3C	1.187	0.288		B/CA/CE
QS-717	B	1.437	0.615	3C	1.187	0.343		B/CA/CE
QS-720	B	1.437	0.615	9CS	---	0.343		B/CA/CESS
QS-882	B	1.437	0.615	---	---	---		B/CA/---
QS-961	B	1.437	0.615	1C	1.250	0.406		B/CA/CE
QS-963	B	1.437	0.615	1C	1.187	0.343		B/CA/CE
QS-964	B	1.437	0.615	1SS	1.250	0.406		B/CA/SS
QS-1000	B	1.437	0.615	1C	1.250	0.406		B/CA/CE
QS-1000V	B	1.437	0.615	1C	1.250	0.406		V/CA/CE
QS-1000V-HC	B	1.437	0.615	1C	1.250	0.406	HC	V/CA/CE
QS-1005A	B	1.437	0.615	1SS	1.375	0.406		B/CA/SS
QS-1013V	B	1.437	0.615	11CS	---	0.375		V/CA/CESS
QS-1021	B	1.437	0.615	9C	---	0.215		B/CA/CE
QS-1089V	B	1.437	0.615	1C	1.093	0.218		V/CA/CE

NOTE: HC - HARD CARBON

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>.625 (5/8") (continued)</b>								
QS-1089V	B	1.437	0.615	1C	1.093	0.406		V/CA/CE
QS-1129	B	1.437	0.615	1SS	1.187	0.343		B/CA/SS
QS-1147A	B	1.437	0.615	8C	---	0.215		B/CA/CE
QS-1151	B	1.437	0.615	2SS	1.250	0.343		B/CA/SS
QS-1152	B	1.437	0.615	1SS	1.250	0.406		B/CA/SS
QS-1246A	B	1.437	0.615	9C	----	0.307		B/CA/CE
QS-1905 YSCSC	B	1.437	0.615	1SC	1.250	0.406	316SS	V/SC/SC
QS-2161	B	1.437	0.615	1C	1.375	0.406		B/CA/CE
QS-2731	B	1.437	0.603	1C	1.250	0.406		B/CA/CE
QS-2734	B	1.437	0.615	8	1.109	0.213		B/CA/SS
QS-2742	B	1.437	0.607	1C	1.250	0.406	316SS	B/CA/CE
QS-2819 SCSC	B	1.437	0.615	11SC	---	0.375		E/SC/SC
QS-3047	B	1.437	0.615	1C	1.250	0.406		B/CA/CE
QS-3102	B	1.437	0.615	11C	---	0.375		B/CA/CE
QS-3103V	B	1.437	0.615	11C	---	0.375		V/CA/CE
QS-3106V SCSC	B	1.437	0.615	11SC		0.375		V/SC/SC
QS-3124	B	1.437	0.615	1C	1.087	0.213		B/CA/CE
QS-3159	B	1.437	0.615	8C	---	0.215		B/CA/CE
QS-3202	B	1.437	0.615	1C	1.250	0.406		E/CA/CE
QS-3212V	B	1.437	0.615	1C	1.250	0.406		V/CA/CE
QS-3667	B	1.437	0.615	9SC	---	0.237		B/SC/SC
QS-3741V SCSC	B	1.437	0.603	1SC	1.250	0.406		V/SC/SC
QS-3845	B	1.437	0.753	8C	1.109	0.213		B/CA/CE
QS-3865R V	B	1.437	0.615	1C	1.250	0.406		V/CA/CE
QS-3926V	B	1.437	0.615	9SS	1.062	0.520	316SS	V/CA/SS
QS-4112A	B	1.437	0.615	1C	1.187	0.296		B/CA/CE
QS-4112AV	B	1.437	0.615	1C	1.187	0.296		V/CA/CE
QS-4114V	B	1.437	0.615	8SS	---	0.213		V/CA/SS
QS-4114A	B	1.437	0.615	7SS	---	0.406		B/CA/SS
QS-4248V	B	1.437	0.615	8SS	---	0.215		V/SC/SS
QS-4290A	B	1.437	0.615	11CS	---	0.375		B/CA/CESS
QS-4403	B	1.437	0.425	Special	1.030	---		B/CA/SS
QS-4479	B	1.437	0.615	9C	1.109	0.213		E/CA/CE
QS-4557	B	1.437	0.615	1C	1.187	0.180		B/CA/CE
QS-4560 HC	B	1.437	0.615	1C	1.250	0.406	HC	B/CA/CE
QS-4587	B	1.437	0.615	8	1.109	0.213		B/CA/SS
QS-4660A	B	1.437	0.615	3SS	1.180	0.250		B/CA/SS
QS-5940A	B	1.437	0.615	7C	---	0.406		B/CA/CE
QS-6005	B	1.437	0.615	1B	1.187	0.172		B/CA/BR
QS-7813YBO	B	1.437	---	1	1.207	---		B/CA/CE
QS-7929V SCSC	B	1.437	0.615	1SC	1.250	0.125		V/SC/SC
QS-9904A	B	1.437	0.615	1SS	1.187	0.172		B/CA/SS
QS-9928A	B	1.437	0.615	1C	1.250	0.343		B/CA/CE
QS-10004	B	1.437	0.615	1SS	---	0.215		B/CA/SS
QS-10050A	B	1.437	0.615	1C	1.375	0.280		B/CA/CE
QS-10050AV	B	1.437	0.615	1C	1.375	0.280		V/CA/CE
QS-10051A	B	1.437	0.615	1SS	1.375	0.280		B/CA/SS

NOTE: HC - HARD CARBON

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>.625 (5/8") (continued)</b>								
QS-0611X	B	1.437	0.615	1C	1.078	0.210		B/CA/CE
QS-0613X	B	1.437	0.615	6SS	---	0.225		B/CA/SS
QS-104	C	1.062	0.875	3B	1.000	0.470		B/CA/BR
QS-110	C	1.062	0.812	3SS	1.125	0.500		B/CA/SS
QS-118	C	1.062	0.812	1C	1.187	0.343		B/CA/CE
QS-118V	C	1.062	0.875	3C	1.187	0.343		V/CA/CE
QS-118V-HC	C	1.062	0.875	1C	1.187	0.343	HC	V/CA/CE
QS-181N	C	1.062	0.843	50	---	PLT		N/CA/PLT
QS-222	C	1.062	0.875	3SS	1.125	0.500		B/CA/SS
QS-290	C	1.062	0.875	1C	1.250	0.406		B/CA/CE
QS-290-E	C	1.062	0.875	1C	1.250	0.406		E/CA/CE
QS-290-HC	C	1.062	0.875	1C	1.250	0.406	HC	B/CA/CE
QS-290V	C	1.062	0.875	1C	1.250	0.406		V/CA/CE
QS-359	C	1.062	0.875	1C	1.250	0.406		B/CA/CE
QS-359-E-HC	C	1.062	0.875	1C	1.250	0.406	HC	E/CA/CE
QS-359V HC	C	1.062	0.875	1C	1.250	0.406	HC	V/CA/CE
QS-493	C	1.062	0.875	1SS	1.187	0.288		B/CA/SS
QS-493V	C	1.062	0.875	1SS	1.187	0.288		V/CA/SS
QS-536	C	1.062	0.875	3C	1.187	0.343		B/CA/CE
QS-552	C	1.062	0.875	3C	1.250	0.875		B/CA/CE
QS-552-E-HC	C	1.062	0.875	3C	1.250	0.406	HC	E/CA/CE
QS-626V	C	1.187	0.875	1C	1.375	0.406	316SS	V/CA/CE
QS-633	C	1.062	0.875	1SS	1.250	0.406		B/CA/SS
QS-633V	C	1.062	0.875	3SS	1.250	0.406		V/CA/SS
QS-732	C	1.062	0.875	3SS	1.250	0.406		B/CA/SS
QS-732E	C	1.062	0.875	3SS	1.250	0.406		E/CA/SS
QS-733	C	1.062	0.875	3C	1.187	0.288		B/CA/CE
QS-800	C	1.062	0.875	1C	1.156	0.312		B/CA/CE
QS-800V	C	1.062	1.187	1C	1.156	0.312		V/CA/CE
QS-810N	C	1.062	0.765	1C	1.250	0.406	*	N/CA/CE
QS-810V-HC	C	1.062	0.765	1C	1.250	0.406	HC/*	V/CA/CE
QS-869	C	1.062	0.875	3C	1.448	0.265		B/CA/CE
QS-900	C	1.062	0.812	2B	1.187	0.312		B/CA/BR
QS-901	C	1.062	0.812	8B	1.187	0.312		B/CA/BR
QS-933	C	1.062	0.875	---	---	---		B/CA/---
QS-951V	C	1.062	0.875	3SS	1.375	0.406		V/CA/SS
QS-970	C	1.062	0.875	2B	1.312	0.312		B/CA/BR
QS-980	C	1.062	0.875	1C	1.250	0.406		B/CA/CE
QS-989N	C	1.062	0.765	1C	1.187	0.288	*	N/CA/CE
QS-990N	C	1.062	0.765	2B	1.312	0.312		N/CA/BR
QS-1016	C	1.062	0.765	1C	1.187	0.343	*	B/CA/CE
QS-1027	C	1.062	0.906	1SS	1.141	0.312		B/CA/SS
QS-1045V	C	1.062	0.718	3C	1.250	0.406		V/CA/CE
QS-1066	C	1.062	0.875	3C	1.250	0.406		B/CA/CE
QS-1079N	C	1.062	0.875	1C	1.250	0.406		N/CA/CE
QS-1080N	C	1.062	0.875	1C	1.250	0.406		N/CA/SS
QS-1085	C	1.312	0.937	1C	1.250	0.406	*	B/CA/CE
QS-1085V	C	1.062	0.937	1C	1.250	0.406	*	V/CA/CE

NOTE:     PLT     - PLATE SEAT  
              HC     - HARD CARBON  
              \*     - TAPERED SPRING



Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>.625 (5/8") (continued)</b>								
QS-1091V	C	1.062	0.715	1C	1.187	0.343		V/CA/CE
QS-1100A	C-S	1.062	0.937	3B	1.000	0.656		B/CA/BR
QS-1108A	C-S	1.062	0.937	---	---	---		B/CA/---
QS-1112A	C	1.062	0.665	1C	1.312	0.312		B/CA/CE
QS-1115AN	C	1.062	1.060	54	---	PLT		N/CA/SS
QS-1119	C	1.062	1.025	1C	1.250	0.406		B/CA/CE
QS-1119V	C	1.062	.968 /1.093	1C	1.250	0.406		V/CA/CE
QS-1124AE	C	1.062	0.875	1C	1.375	0.406		E/CA/CE
QS-1124AV	C	1.062	0.875	1C	1.375	0.406		V/CA/CE
QS-1125AN	C	1.062	0.812	1SS	1.062	0.312		N/CA/SS
QS-1135A	C-S	1.062	0.937	---	---	---		B/CA/---
QS-1140A	C	1.062	0.980	1SS	1.000	0.297		B/CA/SS
QS-1145A	C	1.062	0.875	1SS	1.125	0.406		B/CA/SS
QS-1154	C	1.062	0.875	1SS	1.187	0.343		B/CA/SS
QS-1155	C	1.062	0.875	1C	1.187	0.288		N/CA/CE
QS-1155V	C	1.062	0.875	1C	1.187	0.288		V/CA/CE
QS-1155V-CATC	C	1.062	0.875	1TC	1.187	0.288		V/CA/TC
QS-1156	C	1.062	0.875	1C	1.250	0.406		B/CA/CE
QS-1156V	C	1.062	0.812	1C	1.250	0.406		V/CA/CE
QS-1165A	C	1.062	0.690	1SS	1.125	0.406		B/CA/SS
QS-1170AN	C	1.062	0.875	51	---	PLT		N/CA/PLT
QS-1215AN	C	1.062	0.937	---	---	---		N/CA/---
QS-1216AN	C	1.062	0.937	1B	1.125	0.125		N/CA/BR
QS-1218A	C	1.062	0.937	1C	1.145	0.312		B/CA/CE
QS-1220AN	C	1.062	0.875	1SS	1.125	0.250		N/CA/SS
QS-1230A	C	1.062	1.060	---	---	---		B/CA/---
QS-1230AV	C	1.062	1.060	---	---	---		V/CA/---
QS-1233A	C	1.062	0.937	1C	1.141	0.312		B/CA/CE
QS-1250AN	C	1.062	0.750	1C	1.312	0.312		N/CA/CE
QS-1252AV	C	1.062	0.725	1C	1.250	0.406		V/CA/CE
QS-1260AN	C	1.062	0.812	50	1.188	PLT		N/CA/SS
QS-1260AV	C	1.062	0.812	50	1.188	PLT		V/CA/SS
QS-1505	C	1.062	0.875	1C	1.312	0.250		B/CA/CE
QS-1618	C	1.062	0.937	1C	1.250	0.288	*	B/CA/CE
QS-1625	C	1.062	0.609	3SS	1.250	0.406		B/CA/SS
QS-1625-HC	C	1.062	0.609	3SS	1.250	0.406	HC	B/CA/SS
QS-1626	C	1.062	0.609	3SS	1.250	0.406		B/CA/SS
QS-1626-HC	C	1.062	0.609	3SS	1.250	0.406	HC	B/CA/SS
QS-1626V	C	1.062	0.609	3SS	1.250	0.406		V/CA/SS
QS-1810A	C	1.062	0.973	50	1.125	PLT		B/CA/PLT
QS-2135AN	C	1.062	0.812	54B	---	PLT		N/CA/PLT
QS-2149	C	1.062	0.937	3SS	1.250	0.406	*	B/CA/SS
QS-2160	C	1.062	0.718	1C	1.250	0.406		B/CA/CE
QS-2160V-HC	C	1.062	0.718	1C	1.250	0.406	HC	V/CA/CE
QS-2175AN	C	1.062	0.937	54	---	PLT		N/CA/PLT
QS-2206	C	1.062	0.812	3SS	1.250	0.406	++	E/CA/SS
QS-2214	C	1.062	0.875	1C	1.187	0.296		E/CA/CE
QS-2390AN	C	1.062	0.812	54	---	PLT		N/CA/PLT

NOTE: HC - HARD CARBON  
PLT - PLATE SEAT  
++ - SLOTTED SEAT  
\* - TAPERED SPRING

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>.625 (5/8") (continued)</b>								
QS-2743-HC	C	1.062	0.875	3	1.250	0.406	HC	B/CA/SC
QS-2750-HC	C	1.046	0.808	1C	1.187	0.343	HC	B/CA/CE
QS-3092	C	1.062	0.875	1SC	1.250	0.406	316SS	V/SC/SC
QS-3121V-HC	C	1.093	0.718	1SS	1.250	0.406	HC	V/CA/SS
QS-3133N	C	1.062	0.619	3SS	1.250	0.406		N/CA/SS
QS-3147E HC	C	1.062	0.875	3SS	1.250	0.406	HC	B/CA/SS
QS-3201 CASC	C	1.046	.859 / .734	1SC	1.187	0.296	316SS	E/CA/SC
QS-3230AN	C	1.062	0.780	51	---	PLT		N/CA/PLT
QS-3265 SCSC	C	1.062	0.875	1SC	1.250	0.406		E/SC/SC
QS-3525E HC	C	1.062	0.750	---	---	---	HC	E/CA/---
QS-3550V SCSC	C	1.062	0.875	1SC	1.250	0.406		V/SC/SC
QS-3707	C	1.046	0.859	1SC	1.187	0.296	316SS	E/SC/SC
QS-3723 HC	C	1.062	0.875	3C	1.437	0.312	HC	E/CA/CE
QS-3747	C	1.062	0.875	1SC	1.187	0.343		B/CA/SC
QS-3791	C	1.062	0.875	1C	1.375	0.406		B/CA/CE
QS-3906	C	1.062	0.750	1C	1.250	0.406		B/CA/CE
QS-3910A	C	1.062	0.812	51	0.995	PLT		B/CA/PLT
QS-3914	C	1.062	0.875	3C	1.250	0.406		B/CA/CE
QS-3915	C	1.062	0.875	1C	1.250	0.406		B/CA/CE
QS-3981	C	1.062	0.875	3C	1.437	0.312	HC	E/CA/SS
QS-4031V	C	1.046	0.859	---	---	---	316SS	V/CA/---
QS-4156AN	C	1.062	1.050	51	---	PLT		N/CA/PLT
QS-4212AN	C-S	1.062	0.770	51	---	PLT		N/CA/PLT
QS-4215AN	C	1.062	1.050	52	---	PLT		N/CA/PLT
QS-4222	C	1.046	.859 / .734	1SC	1.187	0.296	316SS	E/CA/SC
QS-4226	C	1.046	0.859	1SC	1.187	0.296	316SS	E/CA/SC
QS-4272	C	1.062	0.875	1C	1.250	0.406		B/CA/CE
QS-4272V	C	1.062	0.875	1C	1.250	0.406	316SS	V/CA/CE
QS-4305A	C	1.062	0.700	1C	1.250	0.250		B/CA/CE
QS-4310V SCSC	C	1.046	0.859	25SC	1.062	0.312		V/SC/SC
QS-4313V	C	1.062	0.718	3 Special	1.500	0.406		V/CA/SS
QS-4320	C	1.062	0.875	3C	1.250	0.250		E/CA/CE
QS-4346V	C	1.062	0.718	3C	1.187	0.281	316SS	V/CA/CE
QS-4356 HC	C	1.093	0.718	1SS	1.250	0.406	HC	E/CA/SS
QS-4358	C	1.062	0.875	3SC	1.250	0.406		E/CA/SC
QS-4402V	C	1.062	0.812	3TC	1.250	0.406	HC	V/CA/TC
QS-4442V	C	1.062	0.875	3SS	1.250	0.312		V/CA/SS
QS-4458V	C	1.187	0.875	1C	1.375	0.406	316SS	V/CA/CE
QS-4460AN	C	1.062	0.937	1C	1.250	0.406		N/CA/CE
QS-4495	C	1.062	0.875	1SC	1.250	0.406		B/SC/SC
QS-4535AN	C	1.062	0.770	1C	1.150	0.312		N/CA/CE
QS-4603V	C	1.062	0.750	1C	1.250	0.406		V/CA/CE
QS-4670A	C	1.062	0.690	1C	1.188	0.219		B/CA/CE
QS-5160A	C	1.062	0.875	1SS	1.437	0.250		B/CA/SS
QS-5235A	C	1.062	0.720	1C	1.250	0.343		B/CA/CE
QS-5235AV	C	1.062	0.720	1C	1.250	0.343		V/CA/CE
QS-6216V TCTC	C	1.062	0.875	1TC	1.250	0.406		V/TC/TC

NOTE: HC - HARD CARBON  
PLT - PLATE SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>.625 (5/8") (continued)</b>								
QS-6234	C	1.062	0.609	1C	1.250	0.406		B/CA/CE
QS-6340A	C	1.062	0.437	---	---	---		
QS-7524 HC	C	1.062	0.718	1C	1.250	0.406	HC	B/CA/CE
QS-7524V SCSC	C	1.062	0.875	1SC	1.250	0.406		V/SC/SC
QS-7547V SCSC	C	1.062	0.875	1SC	1.250	0.406		V/SC/SC
QS-7635V	C	1.062	0.875	3SC	1.062	0.406		V/CA/SS
QS-7689V	C	1.093	0.718	1SS	1.250	0.406		E/CA/SS
QS-7840AN	C	1.062	0.875	1B	1.000	0.437		N/CA/BR
QS-7872V	C	1.062	0.875	3SS	1.437	0.312		V/CA/SS
QS-8500AN	C	1.062	1.000	1C	1.250	0.406		N/CA/CE
QS-9001AN	C	1.062	0.875	1SS	1.187	0.343		N/CA/SS
QS-9075A	C	1.062	1.000	---	---	---		B/CA/---
QS-9220A	C	1.062	0.770	1SS	1.141	0.312		B/CA/SS
QS-0606XE	C	1.062	0.750	3SS	1.187	0.343		E/CA/SS
QS-0611XP	C	1.062	0.875	1C	1.250	0.406		E/CA/CE
QS-0688XV	C	1.062	0.875	3SS	1.250	0.312		V/CA/SS
QS-06145X	C	1.062	0.687	---	---	---		B/CA/---
QS-06164XN	C	1.062	0.765	---	---	---		N/CA/---
QS-061674X	C	1.062	0.875	1SS	1.250	0.406		B/CA/SS
QS-15-52	C	1.062	0.812	1C	1.175	0.375		B/CA/CE
QS-102	D	1.312	0.875	1SS	1.250	0.406		B/CA/SS
QS-102V	D	1.312	0.875	3SS	1.250	0.406		V/CA/SS
QS-109	D	1.312	0.875	---	---	---		B/CA/---
QS-110	D	1.062	0.875	5SS	1.125	0.500		B/CA/SS
QS-226	D	1.312	0.875	1SS	1.187	0.288		B/CA/SS
QS-263	D	1.312	0.875	1SS	1.187	0.343		B/CA/SS
QS-263V	D	1.312	0.875	1SS	1.187	0.343		V/CA/SS
QS-508	D	1.312	0.875	1C	1.250	0.406		B/CA/CE
QS-508-E	D	1.312	0.875	1C	1.250	0.406		E/CA/CE
QS-508V	D	1.312	0.875	3C	1.250	0.406		V/CA/CE
QS-508V-HC	D	1.312	0.875	1C	1.250	0.406	HC	V/CA/CE
QS-531	D	1.312	0.875	1C	1.187	0.288		B/CA/CE
QS-734	D	1.312	0.875	3SS	1.250	0.406		B/CA/SS
QS-735	D	1.312	0.875	3C	1.250	0.406		B/CA/CE
QS-735-E-HC	D	1.312	0.875	3SC	1.250	0.406	HC	E/CA/SC
QS-736	D	1.312	0.875	3C	1.187	0.288		B/CA/CE
QS-737	D	1.312	0.875	3C	1.141	0.343		B/CA/CE
QS-922	D	1.312	0.875	1SS	1.250	0.312		B/CA/SS
QS-1157	D	1.312	0.875	2SS	1.250	0.343		B/CA/SS
QS-2000	D	1.312	0.875	1C	1.250	0.406		B/CA/CE
QS-2000V-HC	D	1.312	0.875	1C	1.250	0.406	HC	V/CA/CE
QS-2001	D	1.312	0.875	1SS	1.250	0.406		B/CA/SS
QS-2002	D	1.312	0.875	3C	1.250	0.406		B/CA/CE
QS-2003	D	1.312	0.875	3SS	1.250	0.406		B/CA/SS
QS-2004	D	1.312	0.875	1C	1.187	0.343		B/CA/CE
QS-2005	D	1.312	0.875	1SS	1.187	0.343		B/CA/SS
QS-2006	D	1.312	0.875	3C	1.187	0.343		B/CA/CE
QS-2007	D	1.312	0.875	1SS	1.187	0.288		B/CA/SS

NOTE: HC - HARD CARBON

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>.625 (5/8") (continued)</b>								
QS-2119	D	1.312	0.875	1C	1.187	0.288		B/CA/CE
QS-2701V	D	1.375	0.875	3TC	1.250	0.406	316SS	V/CA/TC
QS-3677	D	1.375	0.875	3SC	1.250	0.406		B/CA/SC
QS-3132N	D	1.312	0.875	3SC	1.250	0.406		N/CA/SC
QS-4210AN	D	1.312	0.875	5I	---	PLT		N/CA/PLT
QS-4245A	D	1.312	0.925	1C	1.250	0.406		B/CA/CE
QS-4245AV	D	1.312	0.925	1C	1.250	0.406		V/CA/CE
QS-4375V CATC	D	1.375	0.875	3TC	1.250	0.406		V/CA/TC
QS-5150A	D	1.312	0.875	1C	1.187	0.338		B/CA/CE
QS-5590AN	D-B	1.312	0.775	8B	THREADED	0.203		N/CA/BR
QS-274	E	1.093	1.312	1C	1.250	0.406		B/CA/CE
QS-485	E	1.093	1.312	1C	1.187	0.343		B/CA/CE
QS-486	E	1.093	1.312	1SS	1.187	0.288		B/CA/SS
QS-487	E	1.093	1.312	1SS	1.250	0.406		B/CA/SS
QS-738	E	1.093	1.312	3SS	1.250	0.406		B/CA/SS
QS-739	E	1.093	1.312	3C	1.250	0.406		B/CA/CE
QS-740	E	1.093	1.312	3C	1.187	0.288		B/CA/CE
QS-748	E	1.093	1.312	3C	1.187	0.343		B/CA/CE
QS-1158	E	1.093	1.312	2SS	1.250	0.343		B/CA/SS
QS-1210AN	E	1.093	1.110	1SS	1.250	0.406		N/CA/SS
QS-1210AV	E	1.093	1.110	1SS	1.250	0.406		V/CA/SS
QS-1158	E	1.093	1.312	2SS	1.250	0.343		B/CA/SS
QS-1689	E	1.093	1.312	1SS	1.187	0.343		B/CA/SS
QS-2016	E	1.093	1.312	1C	1.250	0.406		B/CA/CE
QS-2017	E	1.093	1.312	1SS	1.250	0.406		B/CA/SS
QS-2018	E	1.093	1.312	3C	1.250	0.406		B/CA/CE
QS-2019	E	1.093	1.312	3SS	1.250	0.406		B/CA/SS
QS-2020	E	1.093	1.312	1C	1.187	0.343		B/CA/CE
QS-2021	E	1.093	1.312	1SS	1.187	0.343		B/CA/SS
QS-2022	E	1.093	1.312	3C	1.187	0.343		B/CA/CE
QS-2023	E	1.093	1.312	3SS	1.187	0.288		B/CA/CE
QS-3148	E	1.093	1.312	3C	1.250	0.406		B/CA/CE
QS-8000AN	E	1.093	1.312	1C	1.150	0.312		N/CA/CE
QS-9710A	E	1.093	1.312	1C	1.187	0.343		B/CA/CE
QS-06163X	E	1.093	1.312	---	---	---		B/CA/---
QS-626V	G	1.062	0.875	1C	1.375	0.406		V/CA/CE
QS-1900	G	1.024	0.718	1SC	1.187	0.343	316SS	V/SC/SC
QS-1901	G	1.024	0.718	1SC	1.250	0.406	316SS	V/SC/SC
QS-1906	G	1.024	0.718	---	---	---	#/316SS	V/CA/---
QS-1907	G	1.024	0.718	1SC	1.381	0.406	316SS	V/SC/SC
QS-1912	G	1.024	0.718	1SC	1.187	0.296	316SS	V/SC/SC
QS-2715	G	1.024	0.718	1SC	1.250	0.406		E/SC/SC
QS-2808	G	1.024	0.718	1SC	1.381	0.406	316SS	E/SC/SC
QS-3005	G	1.024	0.718	25SC	1.250	0.406	316SS	V/SC/SC
QS-3006	G	1.024	0.718	1C	1.250	0.406	316SS	B/CA/CE
QS-3199	G	1.024	0.758	1SC	1.250	0.406	316SS	B/SC/SC
QS-3200	G	1.024	0.718	1C	0.250	0.406	316SS	V/CA/CE

NOTE: # - MOUNTS IN PLASTIC  
PLT - PLATE SEAT



Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>.625 (5/8") (continued)</b>								
QS-3204	G	1.024	0.875	1C	1.250	0.406		B/CA/CE
QS-3586	G	1.024	0.718	1C	1.250	0.406	316SS	E/CA/CE
QS-3866	G	1.024	0.718	1C	1.187	0.343		V/CA/CE
QS-3867	G	1.024	0.718	1C	1.250	0.406		V/CA/CE
QS-3869	G	1.024	0.718	31C	Special	0.406	#	V/CA/CE
QS-3890	G	1.024	0.718	1C	1.381	0.406		V/CA/CE
QS-3910	G	1.024	0.718	1SC	1.250	0.406		B/SC/SC
QS-3960	G	1.024	0.718	1C	1.250	0.406		B/CA/CE
QS-4059	G	1.024	0.718	3SC	1.250	0.406		V/CA/SC
QS-4155	G	1.024	0.718	1SC	1.250	0.406		V/SC/SC
QS-4220	G	1.024	0.875	1C	1.250	0.496		V/CA/CE
QS-4231	G	Special	0.718	1C	1.375/1.381	0.406		V/CA/CE
QS-4267	G	1.024	0.718	1C	1.187	0.343		B/CA/CE
QS-4275	G	1.024	0.718	31C	Special	---	#	B/CA/CE
QS-4280	G	1.024	0.718	1C	1.381	0.406		V/CA/CE
QS-4390	G	1.024	0.718	1SC	1.250	0.410	316SS	V/SC/SC
QS-4577	G	1.024	0.718	1C	1.381	0.406		E/CA/CE
QS-6267	G	1.024	0.180	1SC	1.187	0.296	316SS	E/SC/SC
QS-678	K	1.062	1.187	---	---	---		B/CA/---
QS-863N	K	1.062	1.187	---	---	---		N/CA/---
QS-3885V	K	1.047	1.030	1C	1.250	0.175	WAVE SPRING	V/CA/CE
QS-8630A	K	1.062	1.287	---	---	---		B/CA/---
QS-8631A	K	1.062	1.287	51B	---	PLT		N/CA/PLT
QS-06166X	K	1.062	1.187	1C	1.250	0.406		B/CA/CE
QS-06167X	K	1.062	1.187	1SS	1.250	0.406		B/CA/SS
QS-06168X	K	1.062	1.187	3C	1.250	0.406		B/CA/CE
QS-06169X	K	1.062	1.187	3SS	1.250	0.406		B/CA/SS
QS-1318AN	L-1	1.000	1.625	---	---	---		N/CA/---
QS-5965AV	L-1	1.000	0.812	---	---	---		V/CA/---
QS-1150AN	L-2	1.000	1.250	---	---	---		N/CA/---
QS-8300A	L-2	1.000	1.500	---	---	---		B/CA/---
QS-4237V	Q	1.312	0.625	8C	1.062	0.218		V/CA/CE
QS-0604X	Q	1.500	0.556	1C	1.187	0.343		B/CA/CE
QS-0606X	Q	1.500	0.556	---	---	---		B/CA/---
QS-4420A	R	1.312	1.625	1C	1.875	0.437		B/CA/CE
QS-795N	S	1.312	1.395	8SS	1.187	0.125		N/CA/SS
QS-3920AN	S	1.263	1.310	8SS	M.O.S.	0.125		N/CA/SS
QS-3960A	S	1.200	1.180	8SS	M.O.S.	0.125		B/CA/SS

NOTE: # - MOUNTS IN PLASTIC  
PLT - PLATE SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>.625 (5/8") (continued)</b>								
QS-4065	Special	1.440	0.760	Special	1.110	Special	Unitized	B/CA/CE
QS-5625E	Special	1.251	0.718	1C	1.250	0.406		E/CA/CE
QS-1155AN	T	1.093	1.400	---	---	---		N/CA/---
QS-06165X	T	1.093	1.625	---	---	---		B/CA/---
QS-06170X	T	1.093	1.625	1C	1.250	0.406		B/CA/CE
QS-06171X	T	1.093	1.625	1SS	1.250	0.406		B/CA/SS
QS-06172X	T	1.093	1.625	3C	1.250	0.406		B/CA/CE
QS-06173X	T	1.093	1.625	3SS	1.250	0.406		B/CA/SS
QS-9155	T9	1.187	0.750	2SC	1.250	0.406	316SS	SC/SC
QS-9321	T9	1.187	0.750	2SS	1.250	0.531	316SS	CA/SS
QS-9722	T9	1.187	0.700	27SC	1.437	0.593	316SS	SC/SC
QS-9714	T9 Dbl.	1.187	1.150	3C	1.250	0.406	316SS	CA/CE
QS-9354	T9	1.437	0.727	3 Special SS	1.312	0.375	316SS	PF/BR/SS/ KALREZ
QS-7250	T9	1.441	0.622	Special BR	1.203	0.484	316SS	BR/CE
QS-3962	T9 Spec.	1.437	0.622	2C	1.250	3.900	316SS	CA/CE
QS-9322-STE.	T9T	1.082	0.937	Special SS	1.490	0.625	316SS	CA/STE
QS-8137V	T8-1	1.188	0.750	1C	1.250	0.406	316SS	V/CA/CE
<b>.656 SHAFT</b>								
QS-1192AV	C	1.062	0.875	2SS	1.575	0.406		V/CA/SS
QS-1193AN	C	1.062	0.875	54	---	PLT		N/CA/SS
QS-2220AN	C	1.062	1.000	54	---	PLT		N/CA/SS
QS-3200AN	C	1.062	1.200	52	---	PLT		N/CA/SS
QS-4227AN	G	1.250	1.100	51	---	PLT		N/CA/SS
<b>.682 SHAFT</b>								
QS-1290AN	C	1.125	0.950	1SS	1.312	0.344		N/CA/SS
QS-2287AN	C	1.125	0.750	54	---	PLT		N/CA/SS
<b>.687 (11/16") SHAFT</b>								
QS-1295AN	C	1.125	1.000	51	1.562	PLT		N/CA/SS
QS-2150A	C	1.125	1.000	---	---	---		B/CA/---
QS-2360AN	C	1.125	1.000	54	1.375	PLT		N/CA/SS
QS-2370AN	C	1.125	0.812	54	1.375	PLT		N/CA/SS
QS-2372AN	C	1.125	0.975	54	1.375	PLT		N/CA/SS
QS-3195AN	C	1.125	0.850	54	1.375	PLT		N/CA/SS
QS-3280AN	C	1.125	0.875	56	SEAT IN NUT	1.312		N/CA/SS
QS-3373AN	C	1.125	1.025	52	1.560	PLT		N/CA/SS
QS-7910AN	C	1.125	1.700	51	---	PLT		N/CA/SS

NOTE: PLT - PLATE SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>.687 (11/16") (continued)</b>								
QS-9440AN	C	1.125	PREASSEMBLED IN GLAND	7SS	MOUNTS ON SHAFT	0.375		N/CA/SS
QS-1305A	K	1.125	1.500	3SS	1.375	0.375		B/CA/SS
<b>.750 (3/4") SHAFT</b>								
QS-101	A	1.343	0.812	1C	1.437	0.406		B/CA/CE
QS-101V	A	1.343	0.718	1C	1.437	0.406		V/CA/CE
QS-199	A	1.343	0.718	8SS	M.O.S.	0.125		B/CA/SS
QS-201	A	1.343	0.718	1C	1.375	0.406		B/CA/CE
QS-201V	A	1.343	0.718	3C	1.375	0.406		V/CA/CE
QS-231	A	1.343	0.718	3SS	1.312	0.406		B/CA/SS
QS-301	A	1.343	0.978	1C	1.375	0.281		B/CA/CE
QS-315	A	1.343	0.718	1C	1.312	0.250		B/CA/CE
QS-412	A	1.343	0.718	3SS	1.375	0.375		B/CA/SS
QS-415	A	1.343	0.718	15CS	1.375	0.375		B/CA/CESS
QS-419	A	1.343	0.718	15CS	1.375	0.375		B/CA/CESS
QS-509	A	1.343	0.843	1C	1.375	0.406		B/CA/CE
QS-512	A	1.343	0.718	3SS	1.375	0.375		B/CA/SS
QS-596	A	1.343	0.812	3SS	1.375	0.406		B/CA/SS
QS-689	A	1.343	0.718	3SS	1.250	0.343		B/CA/SS
QS-699	A	1.343	0.718	1C	1.437	0.406		B/CA/CE
QS-760	A	1.343	0.812	3C	1.375	0.406		B/CA/CE
QS-760SS	A	1.343	0.615	3C	1.375	0.406		B/CA/CE
QS-762	A	1.343	0.812	3SS	1.375	0.406		B/CA/SS
QS-764	A	1.343	0.812	1C	1.375	0.281		B/CA/CE
QS-851	A	1.343	0.718	1C	1.375	0.406		B/CA/CE
QS-851-E	A	1.343	0.718	1C	1.375	0.406		E/CA/CE
QS-908	A	1.343	0.658	1C	1.375	0.406		B/CA/CE
QS-921	A	1.343	0.718	1SS	1.375	0.406		B/CA/SS
QS-968	A	1.343	0.718	1C	1.437	0.406		B/CA/CE
QS-973	A	1.343	0.718	1SS	1.375	0.406		B/CA/SS
QS-974	A	1.343	0.718	---	---	---		B/CA/---
QS-1425A	A	1.343	0.718	3SS	2.250	0.312		B/CA/SS
QS-1521A	A	1.343	0.718	3C	1.375	0.406		B/CA/CE
QS-1522	A	1.343	0.718	---	---	---		B/CA/---
QS-1525	A	1.343	0.718	1C	1.500	0.250		B/CA/CE
QS-1542A	A	1.343	0.718	1C	1.344	0.406		B/CA/CE
QS-1908V	A	1.343	0.718	1SC	1.375	0.406		V/SC/SC
QS-2118	A	1.343	0.718	1SS	1.437	0.406		B/CA/SS
QS-2136	A	1.343	0.718	1C	1.375/1.75	0.406		B/CA/CE

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>.750 (3/4") (continued)</b>								
QS-2744	A	1.343	0.718	3 Special	1.375	0.406		B/CA/Special
QS-3061	A	1.343	0.718	1C	1.375	0.406		B/CA/CE
QS-4489	A	1.343	0.700	1C	1.375	0.406		B/CA/CE
QS-4820A	A	1.343	0.718	1SS	1.750	0.328		B/CA/SS
QS-369	B	1.575	0.615	3SS	1.207	0.250		B/CA/SS
QS-388	B	1.575	0.615	1C	M.I.B	0.360		B/CA/CE
QS-440	B	1.575	0.615	11C	M.O.S.	0.437		B/CA/CE
QS-441	B	1.575	0.615	9SS	M.O.S.	0.375		B/CA/SS
QS-601	B	1.575	0.615	1C	1.375	0.406		B/CA/CE
QS-601V	B	1.575	0.615	3C	1.375	0.406		V/CA/CE
QS-606	B	1.575	0.615	1SS	1.375	0.406		B/CA/SS
QS-647	B	1.575	0.615	---	---	---		B/CA/---
QS-765	B	1.575	0.615	3C	1.375	0.406		B/CA/CE
QS-766	B	1.575	0.615	3SS	1.375	0.406		B/CA/SS
QS-902	B	1.575	0.615	9SS	M.O.S.	0.281		B/CA/SS
QS-1024	B	1.575	0.615	---	---	---		B/CA/---
QS-1159	B	1.575	0.615	9C	M.O.S.	0.562		B/CA/CE
QS-1379A	B	1.575	0.615	1C	1.375	0.406		B/CA/CE
QS-1381A	B	1.575	0.615	1C	1.375	0.406		B/CA/CE
QS-1622	B	1.575	0.615	9C	M.O.S.	0.312		B/CA/CE
QS-1622V	B	1.575	0.615	9C	---	0.312		V/CA/CE
QS-1904V	B	1.575	0.615	1SC	1.375	0.406	316SS	V/SC/SC
QS-2718	B	1.718	0.600	8C	1.250	0.352		B/CA/CE
QS-2735V	B	1.575	0.615	3C	1.375	0.406	316SS	V/CA/CE
QS-2745	B	1.575	0.615	8C	1.187	0.218	316SS	B/CA/CE
QS-3104V	B	1.575	0.615	3SC	1.375	0.406	316SS	V/SC/SC
QS-3882V	B	1.575	0.615	1C	1.375	0.406		V/CA/CE
QS-3985	B	1.575	0.615	1C	1.375	0.406	316SS	B/CA/CE
QS-3986V	B	1.575	0.615	1C	1.375	0.406		V/CA/CE
QS-4048	B	1.575	0.615	9SC	1.312	0.312		B/SC/SC
QS-4056	B	1.575	0.615	1C	1.375	0.406		E/CA/CE
QS-4106V	B	1.575	0.615	1C	1.375	0.406	316SS	V/CA/CE
QS-4520V	B	1.575	0.615	3C	1.375	0.406		V/CA/CE
QS-7618	B	1.575	0.615	11C	1.375	0.406		B/CA/CE
QS-7813YSC	B	1.575	0.615	1SC	1.378	0.406		B/CA/SC
QS-7813YMS	B	1.575	0.615	SP	---	---		B/SC/---
QS-7813YB4	B	1.575	0.615	1C	1.378	0.406		B/CA/CE
QS-7813YB7	B	1.575	0.615	1C	1.378	0.406		B/CA/CE
QS-7815YB8	B	1.575	0.615	1C	1.378	0.406		B/CA/CE
QS-7815-489	B	1.575	0.615	SP	---	---		B/CA/---
QS-7964N	B	1.575	0.615	Special	1.312	0.312		N/CA/SS
QS-9175A	B	1.575	0.615	10SS	MOUNT ON SHAFT	0.743		B/CA/SS
QS-112	C	1.187	0.875	1SS	1.375	0.406		B/CA/SS
QS-112V	C	1.187	0.875	3SS	1.375	0.406		V/CA/SS
QS-112V-HC	C	1.187	0.875	1SS	1.375	0.406	HC	V/CA/SS
QS-116	C	1.187	0.875	3SS	1.312	0.375		B/CA/SS
QS-121	C	1.187	0.875	3SS	1.250	0.343		B/CA/SS

NOTE: HC - HARD CARBON



Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>.750 (3/4") (continued)</b>								
QS-128	C	1.187	0.843	1C	1.375	0.406	*	B/CA/CE
QS-128V	C	1.187	0.843	3C	1.375	0.406	*	V/CA/CE
QS-157	C	1.187	0.875	---	---	---		B/CA/---
QS-275	C	1.187	1.312	1C	1.375	0.406		B/CA/CE
QS-275-E	C	1.187	1.312	1C	1.375	0.406		E/CA/CE
QS-275V	C	1.187	1.312	3C	1.375	0.406		V/CA/CE
QS-358	C	1.187	0.875	1C	1.375	0.406		B/CA/CE
QS-358V	C	1.187	0.875	3C	1.375	0.406		V/CA/CE
QS-358V-HC	C	1.187	0.875	1C	1.375	0.406	HC	V/CA/CE
QS-358V-HC	C	1.187	0.875	1TC	1.375	0.406	HC	V/CA/TC
QS-358V-SC-SC	C	1.187	0.875	1SC	1.375	0.406		V/SC/SC
QS-358V-TC-TC	C	1.187	0.875	1TC	1.375	0.406		V/TC/TC
QS-358LS	C	1.187	1.312	1C	1.375	0.406		B/CA/CE
QS-362	C	1.187	0.875	2SS	1.375	0.406		B/CA/SS
QS-373	C	1.187	1.312	1SS	1.375	0.406		B/CA/SS
QS-373V	C	1.187	1.312	1SS	1.375	0.406		V/CA/SS
QS-502	C	1.187	0.875	2B	1.312	0.406		B/CA/BR
QS-564	C	1.187	1.312	---	---	---		B/CA/---
QS-649	C	1.187	0.875	3SS	1.312	0.406		B/CA/SS
QS-683	C	1.187	0.875	1C	1.500	0.250		B/CA/CE
QS-767	C	1.187	0.875	3C	1.375	0.406		B/CA/CE
QS-767-E	C	1.187	0.875	3C	1.375	0.406		E/CA/CE
QS-768	C	1.187	0.875	3SS	1.375	0.406		B/CA/SS
QS-771	C	1.187	1.312	3C	1.375	0.406		B/CA/CE
QS-773	C	1.187	1.312	3SS	1.375	0.406		B/CA/SS
QS-785	C	1.187	0.875	14B	1.125	0.375		B/CA/BR
QS-820	C	1.187	0.875	2B	1.625	0.437		B/CA/BR
QS-877	C	1.187	0.715	1C	1.375	0.406		B/CA/CE
QS-944	C	1.187	0.718	1C	1.375	0.281		B/CA/CE
QS-944-E	C	1.187	0.718	1C	1.375	0.281		E/CA/CE
QS-944V	C	1.187	0.718	1C	1.375	0.281		V/CA/CE
QS-1027	C	1.187	0.812	57	---	PLT		B/CA/PLT
QS-1092V	C	1.187	0.718	1SS	1.375	0.406		V/CA/SS
QS-1093V	C	1.187	0.718	1C	1.375	0.406		V/CA/CE
QS-1113	C	1.187	0.718	1SS	1.375	0.406		B/CA/SS
QS-1125 HC	C	1.187	0.718	1C	1.375	0.406	HC	B/CA/CE
QS-1160	C	1.187	0.875	1SS	1.375	0.406		B/CA/SS
QS-1285A	C	1.187	0.812	52	---	PLT		B/CA/PLT
QS-1300EA	C	1.187	0.875	1C	1.375	0.406		E/CA/CE
QS-1311A	C	1.187	0.812	1SS	1.375	0.375		B/CA/SS
QS-1316AV	C	1.187	1.000	3SS	1.312	0.375		V/CA/SS
QS-1380A	C	1.187	1.000	51	2.125	PLT		B/CA/PLT
QS-1435A	C	1.187	0.875	2SS	1.500	0.375		B/CA/SS
QS-1510	C	1.187	0.875	1C	1.375	0.281		B/CA/CE
QS-1510A	C	1.187	0.875	3SS	1.375	0.312		B/CA/SS
QS-1510AV	C	1.187	0.875	3SS	1.375	0.312		V/CA/SS
QS-1510V	C	1.187	0.875	1C	1.375	0.281		V/CA/CE
QS-1514	C	1.187	0.875	1C	1.312	0.406		B/CA/CE
QS-1526A	C	1.187	0.718	52	2.047	PLT		B/CA/SS

NOTE: HC - HARD CARBON  
PLT - PLATE SEAT  
\* - TAPERED SPRING

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>.750 (3/4") (continued)</b>								
QS-1754	C	1.187	0.920	1C	1.375	0.406		B/CA/CE
QS-2229V-HC	C	1.187	0.875	1SS	1.375	0.406	HC	V/CA/SS
QS-2235V	C	1.187	0.718	3C	1.375	0.406		V/CA/CE
QS-2236	C	1.187	0.718	3C	1.375	0.406		B/CA/CE
QS-2746V	C	1.171	0.920	1C	1.375	0.406	*	V/CA/CE
QS-2747	C	1.187	0.718	1C	1.375	0.406		B/CA/CE
QS-2800 HC	C	2.187	0.875	1C	1.355	0.406	HC	B/CA/CE
QS-3068 E	C	1.187	0.718	3SC	1.375	0.406		E/SC/SC
QS-3074V	C	1.187	0.718	3SC	1.375	0.406		V/SC/SC
QS-3110	C	1.187	0.875	1SC	1.375	0.406		B/SC/SC
QS-3149	C	1.187	0.843	1C	1.375	0.406		B/CA/CE
QS-3156V	C	1.171	0.875	1SC	1.375	0.406		V/SC/SC
QS-3162E	C	1.187	0.875	1SC	1.375	0.406		E/TC/SC
QS-3191V	C	1.187	0.875	1C	1.375	0.406	316SS	V/CA/CE
QS-3194E	C	1.187	0.718	1SC	1.375	0.406		E/SC/SC
QS-3208V	C	1.187	0.875	1C	1.375	0.406		V/CA/CE
QS-3313	C	1.187	0.875	3TC	1.375	0.406		B/TC/TC
QS-3415E	C	1.187	0.875	1C	1.375	0.312		E/CA/CE
QS-3559	C	1.187	0.875	5	1.275	0.302		B/CA/Special
QS-3654	C	1.187	0.718	1SS	1.375	0.406		B/CA/SS
QS-3840	C	1.187	0.875	1C	1.275	0.281		B/CA/CE
QS-3894E	C	1.187	0.718	1SC	1.375	0.406		E/CA/SC
QS-3916	C	1.187	0.875	3C	1.375	0.406		B/CA/CE
QS-3922	C	1.187	1.187	1SC	1.375	0.406		B/SC/SC
QS-4121N	C	1.187	0.875	3SS	1.375	0.406		N/CA/SS
QS-4229	C	1.187	0.718	3C	1.375	0.406		E/CA/CE
QS-4283	C	1.187	0.718	3SS	1.375	0.406		E/CA/SS
QS-4285V	C	1.187	0.718	3SS	1.375	0.406		V/CA/SS
QS-4323	C	1.187	0.875	3C	1.187	0.406		B/CA/CE
QS-4330 HC	C	1.187	0.875	1SS	1.375	0.406	HC	B/CA/SS
QS-4465V	C	1.187	0.875	3C	1.375	0.406	316SS	V/CA/CE
QS-4531E-HC	C	1.171	0.875	1TC	1.375	0.406	HC	E/CA/TC
QS-4640A	C	1.187	1.000	3SS	1.625	0.312		B/CA/SS
QS-5108V-HC	C	1.187	0.656	2SS	1.562	0.312	HC	V/CA/SS
QS-5176A	C	1.187	1.000	52	---	PLT		B/CA/SS
QS-5177A	C	1.187	1.000	52	---	PLT		B/CA/SS
QS-5728V	C	1.187	0.875	3SC	1.375	0.406		V/SC/SC
QS-6223A	C	1.187	0.600	52	1.375	PLT		B/CA/SS
QS-7277	C	1.187	0.875	1C	1.437	0.406		B/CA/CE
QS-7305V	C	1.187	0.875	1SC	1.375	0.406	316SS	V/SC/SC
QS-7514	C	1.187	0.718	1C	1.437	0.406		B/CA/CE
QS-7843 HC	C	1.171	0.875	1C	1.375	0.406	HC	V/CA/CE
QS-877V	C	1.187	0.718	1C	1.375	0.406		V/CA/CE
QS-9185A	C	1.187	0.875	2B	1.375	0.375		B/CA/BR
QS-103	D	1.437	0.875	2SS	1.375	0.406		B/CA/SS
QS-207	D	1.437	0.875	3SS	1.312	0.375		B/CA/SS
QS-265	D	1.437	0.875	3SS	1.375	0.406		B/CA/SS
QS-399	D	1.437	0.875	---	---	---		B/CA/---

NOTE:      HC      - HARD CARBON  
                 PLT      - PLATE SEAT  
                 \*      - TAPERED SPRING

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>.750 (3/4") (continued)</b>								
QS-437	D	1.437	0.875	18C	1.207	0.290		B/CA/CE
QS-437-HC	D	1.437	0.875	1C	1.275	0.281	HC	B/CA/CE
QS-437V-SC-SC	D	1.437	0.875	1SC	1.275	0.281		V/SC/SC
QS-443	D	1.437	0.875	18SS	1.207	0.290		B/CA/SS
QS-444	D	1.437	0.875	1SS	1.437	0.406		B/CA/SS
QS-750	D	1.437	0.875	1C	1.375	0.406		B/CA/CE
QS-750-E	D	1.437	0.875	1C	1.375	0.406		E/CA/CE
QS-750V	D	1.437	0.875	3C	1.375	0.406		V/CA/CE
QS-752	D	1.437	0.875	1SS	1.375	0.406		B/CA/SS
QS-752V	D	1.437	0.875	3SS	1.375	0.406		V/CA/SS
QS-769	D	1.437	0.875	3C	1.375	0.406		B/CA/CE
QS-905	D	1.437	0.875	17SS	1.187	0.375		B/CA/SS
QS-991	D	1.437	0.875	1C	1.375	0.406		B/CA/CE
QS-1026	D	1.437	1.000	1SS	1.437	0.406		B/CA/SS
QS-1130	D	1.437	0.906	1C	1.375	0.406		B/CA/CE
QS-1161	D	1.437	0.875	1C	1.437	0.406		B/CA/CE
QS-1162	D	1.437	0.875	1C	1.375	0.281		B/CA/CE
QS-1367AV	D	1.437	0.700	2SS	1.562	0.406		V/CA/SS
QS-1395A	D	1.437	0.700	2SS	1.562	0.281		B/CA/SS
QS-2008	D	1.437	0.875	1C	1.375	0.406		B/CA/CE
QS-2009	D	1.437	0.875	1SS	1.375	0.406		B/CA/SS
QS-2010	D	1.437	0.875	3C	1.375	0.406		B/CA/CE
QS-2011	D	1.437	0.875	3SS	1.375	0.406		B/CA/SS
QS-3299	D	1.437	0.875	3CA	1.375	0.406	316SS	V/CA/CE
QS-3855V	D	1.437	0.875	3SC	1.375	0.406		V/SC/SC
QS-5900A	D	1.437	1.000	1SS	1.375	0.406		B/CA/SS
QS-5900AV	D	1.437	1.000	1SS	1.375	0.406		V/CA/SS
QS-6006	D	1.437	0.845	3SC	1.375	0.406		B/CA/SC
QS-7061A	D	1.437	1.000	---	---	---		B/CA/---
QS-7087	D	1.500	0.687	3SS	1.375	0.250		B/CA/SS
QS-7613N	D	1.500	0.687	3SS	1.375	0.250		N/CA/SS
QS-7613V	D	1.500	0.687	3SS	1.375	0.250		V/CA/SS
QS-9925A	D	1.437	1.000	2B	1.375	0.406		B/CA/BR
QS-275	E	1.218	1.312	1C	1.375	0.406		B/CA/CE
QS-373	E	1.218	1.312	1SS	1.375	0.406		B/CA/SS
QS-564	E	1.218	1.312	---	---	---		B/CA/---
QS-565	E	1.218	1.312	2SS	1.375	0.406		B/CA/SS
QS-771	E	1.218	1.312	3C	1.375	0.406		B/CA/CE
QS-773	E	1.218	1.312	3SS	1.375	0.406		B/CA/SS
QS-1124	E	1.218	1.000	1C	1.328	0.406		B/CA/CE
QS-1405A	E	1.218	1.312	1C	1.375	0.375		B/CA/CE
QS-1545A	E	1.218	1.312	2SS	1.312	0.375		B/CA/CE
QS-1555A	E	1.218	1.312	5I	1.250	0.344		B/CA/SS
QS-2012	E	1.218	1.312	1C	1.375	0.406		B/CA/CE
QS-2013	E	1.218	1.312	1SS	1.375	0.406		B/CA/SS
QS-2014V	E	1.218	1.312	3C	1.375	0.406		V/CA/CE
QS-2015	E	1.218	1.312	3SS	1.375	0.406		B/CA/SS
QS-4093	E	1.218	1.375	3SS	1.187	0.406		E/CA/SS

NOTE: HC - HARD CARBON

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>.750 (3/4") (continued)</b>								
QS-4484	E	1.218	1.250	1SS	1.375	0.406		E/CA/SS
QS-4518	E	1.218	1.250	1C	1.375	0.406		B/CA/CE
QS-5138A	E	1.218	1.312	52	---	PLT		B/CA/SS
QS-7960V	E	1.218	1.375	3SS	1.187	0.406		V/CA/SS
QS-7994V	E	1.218	1.250	3SS	1.187	0.406		V/CA/SS
QS-1902V	G	1.260	0.718	1SC	1.375	0.406	316SS	V/SC/SC
QS-2733E	G	1.260	0.718	1C	1.375	0.406		E/CA/CE
QS-3056V	G	1.260	0.718	1SC	1.375	0.406		V/SC/SC
QS-3105V	G	1.260	0.718	25SC	1.375	0.406		V/SC/SC
QS-3107V	G	1.260	0.718	3C	1.375	0.406		V/CA/CE
QS-3740	G	1.024	0.718	1SC	1.375	0.406		B/SC/SC
QS-3788V	G	1.260	0.875	3C	1.375	0.406		V/CA/CE
QS-3868V	G	1.260	0.718	1C	1.375	0.406		V/CA/CE
QS-3870V	G	1.260	0.718	1C	1.375/1.750	0.406		V/CA/CE
QS-3937	G	1.260	0.875	1SC	1.375	0.406		B/SC/SC
QS-4020	G	1.260	0.812	1C	1.375	0.406		B/CA/CE
QS-4024	G	1.260	0.875	1SC	1.275	0.281		E/SC/SC
QS-4265	G	1.035	0.718	1C	1.375	0.406		B/CA/CE
QS-4274	G	1.260	0.718	32C	1.375/1.750	---	#	B/CA/CE
QS-812	J	1.225	0.875	1C	1.375	0.375		B/CA/CE
QS-145	K	1.187	1.625	---	---	---		B/CA/---
QS-175	K	1.187	1.156	1SS	1.375/1.500	.281/.250		B/CA/SS
QS-1275A	K	1.187	1.156	3B	1.125	0.406		B/CA/BR
QS-1366A	K	1.187	1.156	8SS	1.250	0.062		B/CA/SS
QS-1604	K	1.187	1.700	1C	1.375	0.406		B/CA/CE
QS-3214V	K	1.187	1.187	3C	1.375	0.406		V/CA/CE
QS-5035A	K	1.187	1.400	51	---	PLT		B/CA/SS
QS-1270A	L-1	1.125	1.000	---	---	---		B/CA/---
QS-1272AV	L-1	1.281	0.950	3SS	1.686	0.406		V/CA/SS
QS-1315A	L-1	1.125	0.950	---	---	---		B/CA/---
QS-1495A	L-1	1.125	NO SPRING	---	---	---		B/CA/---
QS-4314A	L-1	1.385	0.812	52	---	PLT		B/CA/SS
QS-6226A	L-1	1.250	0.550	1CA	1.187	0.281		B/SS/CA
QS-1385A	L-2	1.125	1.850	---	---	---		B/CA/---
QS-1490A	L-2	1.125	1.300	---	---	---		B/CA/---
QS-8305A	L-2	1.125	1.650	---	---	---		B/CA/---
QS-3921AN	L-2	1.625	1.875	8SS	M.O.S.	0.250		N/CA/SS
QS-1460A	M	1.156	0.310	1C	1.250	0.328		B/CA/CE

NOTE: # - MOUNTS IN PLASTIC  
 PLT - PLATE SEAT



Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>.750 (3/4") (continued)</b>								
QS-651	R	1.437	1.625	1SS	1.375	0.406		B/CA/SS
QS-792	S	1.625	1.953	8SS	1.500	0.250		N/BR/SS
QS-4144V SCSC	T	1.158	1.438	3SC	1.375	0.406		V/SC/SC
QS-1044A	T9T	1.218	0.875	1C	1.375	0.469		CA/CE
QS-5215A	T9T	1.218	0.750	25SC	1.375	0.385		CA/SC
QS-3935	T9	1.312	0.875	2SS	1.375	0.375	316SS	CA/SS
QS-9007A	T9	1.312	0.875	1C	1.375	0.469		CA/CE
QS-9324	T9	1.312	0.875	2SS	1.375	0.750	316SS	CA/SS
QS-9339	T9	1.312	0.875	2C	1.375	0.406	316SS	CA/CE
QS-9323	T9 Special	1.500	0.875	2SS	1.375	0.343	316SS	CA/SS
QS-9325	T9 Special	1.500	0.875	2STE	1.375	0.312	316SS	CA/STE
QS-9711	T9 Special	1.576	0.687	2C	1.375	0.406	316SS	CA/CE
QS-8036	T8-1	1.312	0.875	5TC	1.383	0.406	316SS	E/CA/TC
QS-8064	T8-1	1.312	0.875	3SC	1.375	0.406	316SS	B/SC/SC
QS-8123	T8-1	1.312	0.875	5TC	1.625	0.406	HC/316SS	E/CA/TC
QS-8101	T8-1 Special	1.312	0.875	5TC	1.375	0.406	316SS	E/CA/TC
QS-1487AV	Z	1.502	0.720	SEAT UNITIZED WITH SEAL				V/CA/CE
<b>.765 SHAFT</b>								
QS-1406A	C	1.187	0.718	1SS	1.250	0.280		B/CA/SS
QS-5309A	D	1.437	0.718	---	---	---		B/CA/---
QS-5310A	D	1.437	0.775	51	---	PLT		B/CA/PLT
<b>.780 SHAFT</b>								
QS-1665A	G	1.187	1.000	51	1.937	PLT		B/CA/PLT
<b>.787 (20MM) SHAFT</b>								
QS-4042	C	1.375	0.781	1C	1.500	0.406		B/CA/CE
QS-135	D	1.562	0.937	1C	1.500	0.406		B/CA/CE
QS-139	D	1.562	1.218	17SS	1.296	0.468		B/CA/SS
QS-614	D	1.562	0.937	1SS	1.500	0.406		B/CA/SS
QS-3135	D	1.562	0.937	1SS	1.500	0.406		B/CA/SS

NOTE: HC - HARD CARBON  
PLT - PLATE SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>.787 (20MM) (continued)</b>								
QS-1560A	L-1	1.187	NO SPRING	---	---	---		B/CA/---
<b>.812 SHAFT</b>								
QS-1570A	C	1.281	0.812	51	1.625	PLT		B/CA/PLT
QS-1575A	C	1.281	1.100	2SS	1.312	0.312		B/CA/SS
QS-4196A	C	1.281	0.937	51	---	PLT		B/CA/PLT
QS-4355A	C	1.281	1.100	54	---	PLT		B/CA/PLT
<b>.848 SHAFT</b>								
QS-1580A	M	1.750	1.275	3SS	1.218	0.453		B/CA/SS
<b>22MM SHAFT</b>								
QS-50086	C	1.281	0.937	1C	38MM	0.406		B/CA/CE
<b>.875 (7/8") SHAFT</b>								
QS-208	C	1.281	0.937	---	---	---		B/CA/---
QS-294	C	1.281	0.937	2SS	1.562	0.406		B/CA/SS
QS-309	C	1.281	0.937	1C	1.500	0.406		B/CA/CE
QS-309-E	C	1.312	0.937	1C	1.500	0.406		E/CA/CE
QS-309-HC	C	1.312	0.937	1C	1.500	0.406	HC	B/CA/CE
QS-309-SC-SC	C	1.312	0.937	1SC	1.500	0.406		B/SC/SC
QS-309-TC-TC	C	1.312	0.937	1TC	1.500	0.406		B/TC/TC
QS-309V	C	1.312	0.937	3C	1.500	0.406		V/CA/CE
QS-309V-HC	C	1.312	0.937	1C	1.500	0.406	HC	V/CA/CE
QS-617	C	1.281	0.937	3SS	1.500	0.406		B/CA/SS
QS-687	C	1.281	0.937	1SS	1.500	0.406		B/CA/SS
QS-687V	C	1.312	0.937	3SS	1.500	0.406		V/CA/SS
QS-687V-HC	C	1.312	0.937	1SS	1.500	0.406	HC	V/CA/SS
QS-774	C	1.281	0.937	3C	1.500	0.406		V/CA/CE
QS-875LS	C	1.281	1.375	1C	1.500	0.406		B/CA/CE
QS-1051	C	1.281	0.937	3C	1.500	0.406		B/CA/CE
QS-1116	C	1.281	0.812	3C	1.875	0.390		B/CA/CE
QS-1163	C	1.281	0.937	1SS	1.562	0.406		B/CA/CE
QS-1605AN	C	1.281	0.825	---	---	---		N/CA/---
QS-1610AN	C	1.281	0.937	2SS	1.250	0.375		N/CA/SS
QS-1636AV	C	1.281	0.700	1C	1.500	0.187		N/CA/CE
QS-1645AN	C	1.281	0.600	---	---	---		V/CA/---
QS-1685AN	C	1.281	1.100	51	1.875	PLT		N/CA/SS
QS-1690AN	C	1.281	0.937	3SS	1.312	0.421		N/CA/SS
QS-1710AN	C	1.281	0.650	2B	1.500	0.312		N/CA/BR
QS-1715AN	C	1.281	0.825	2SS	1.500	0.406		N/CA/SS

NOTE:      HC      - HARD CARBON  
              PLT      - PLATE SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>.875 (7/8") (continued)</b>								
QS-1720AN	C	1.281	0.937	2B	1.437	0.406		N/CA/BR
QS-1732AN	C	1.281	0.875	1TC	1.500	0.406		N/CA/TC
QS-1794AN	C	1.281	1.100	3SS	1.500	0.406		N/CA/SS
QS-2166	C	1.312	0.937	1C	1.437	0.265		B/CA/CE
QS-2166-E	C	1.312	0.937	1C	1.437	0.265		E/CA/CE
QS-2166V	C	1.312	0.937	1C	1.437	0.265		V/CA/CE
QS-2167	C	1.312	0.812	1C	1.437	0.265		B/CA/CE
QS-2167-E-HC	C	1.312	0.812	1C	1.437	0.265	HC	E/CA/CE
QS-2167V	C	1.312	0.812	1C	1.437	0.265		V/CA/CE
QS-2168	C	1.312	0.937	3SS	1.437	0.265		B/CA/SS
QS-2168-E	C	1.312	0.937	3SS	1.437	0.265		E/CA/SS
QS-2168V	C	1.312	0.937	3SS	1.437	0.265		V/CA/SS
QS-2169	C	1.312	0.812	3SS	1.437	0.265		B/CA/SS
QS-2169V	C	1.312	0.812	3SS	1.437	0.265		V/CA/SS
QS-2224 HC	C	1.312	0.812	3SS	1.437	0.265	HC	E/CA/SS
QS-2702V	C	1.312	0.937	3C	1.500	0.406	316SS	V/CA/CE
QS-3176 SCSC	C	1.312	0.937	3SC	1.500	0.406		B/SC/SC
QS-3678 HC	C	1.312	0.718	3SC	1.437	0.265	HC	E/CA/SC
QS-3733V	C	1.406	0.937	3C	1.500	0.406		V/CA/CE
QS-3749	C	1.312	0.812	1C	1.500	0.218		B/CA/CE
QS-3749-SC-SC	C	1.312	0.812	1SC	1.500	0.218		B/SC/SC
QS-3826 HC	C	1.312	0.812	1C	1.437	0.265	HC	E/CA/CE
QS-3893V	C	1.312	0.875	3 Special	1.500	0.468		V/CA/SS
QS-3907	C	1.312	0.875	1C	1.500	0.406		B/CA/CE
QS-3911	C	1.187	0.875	1SC	1.500	0.406		B/SC/SC
QS-3941V	C	1.312	0.937	1SC	1.500	0.406		V/SC/SC
QS-3944	C	1.312	0.718	1SS	1.500	0.406		B/CA/SS
QS-3970	C	1.312	0.843	1TC	1.500	0.406		B/CA/TC
QS-3996V	C	1.312	0.919	1SC	1.500	0.406	316SS	V/CA/SC
QS-4017V HC	C	1.312	0.718	3SS	1.437	0.265	HC	V/CA/SS
QS-4120AN	C	1.281	0.812	54	---	PLT		N/CA/PLT
QS-4157AN	C	1.281	0.937	54	---	PLT		N/CA/PLT
QS-4368AN	C	1.281	1.250	51	1.875	PLT		N/CA/PLT
QS-4369AN	C	1.281	1.250	51	1.875	PLT		N/CA/PLT
QS-4395	C	1.312	0.937	1SC	1.500	0.406	MONEL	B/CA/SC
QS-4513V	C	1.312	0.937	3TC	1.500	0.406		V/CA/TC
QS-5136AN	C	1.281	0.937	52	---	PLT		N/CA/PLT
QS-6345AN	C	1.281	0.937	54	---	PLT		N/CA/PLT
QS-6435AN	C	1.281	0.812	55	---	PLT		N/CA/PLT
QS-7130	C	1.312	0.812	1C	1.500	0.406		B/CA/CE
QS-7496	C	1.312	0.718	1C	1.500	0.218		B/CA/CE
QS-7990AN	C	1.281	0.937	1SS	1.375	0.312		N/CA/SS
QS-144	D	1.562	0.937	3SS	1.625	0.406		B/CA/SS
QS-250	D	1.562	0.937	3SS	1.500	0.406		B/CA/SS

NOTE: HC - HARD CARBON  
PLT - PLATE SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>.875 (7/8") (continued)</b>								
QS-303	D	1.562	0.937	1SS	1.500	0.406		B/CA/SS
QS-303-HC	D	1.562	0.937	1SS	1.500	0.406	HC	B/CA/SS
QS-303V	D	1.562	0.937	3SS	1.500	0.406		V/CA/SS
QS-303V-HC	D	1.562	0.937	1SS	1.500	0.406	HC	V/CA/SS
QS-303V-CATC	D	1.562	0.937	1TC	1.500	0.406		V/CA/TC
QS-578	D	1.562	0.937	---	---	---		B/CA/---
QS-602	D	1.562	0.937	1C	1.562	0.406		B/CA/CE
QS-603	D	1.562	0.937	2SS	1.562	0.406		B/CA/SS
QS-703	D	1.562	0.937	1C	1.500	0.406		B/CA/CE
QS-703-HC	D	1.562	0.937	1C	1.500	0.406	HC	B/CA/CE
QS-703V	D	1.562	0.937	3C	1.500	0.406		V/CA/CE
QS-703V-HC	D	1.562	0.937	1C	1.500	0.406	HC	V/CA/CE
QS-703V-SC-SC	D	1.562	0.937	3SC	1.500	0.406	316SS	V/SC/SC
QS-775	D	1.562	0.937	3C	1.500	0.406		B/CA/CE
QS-790	D	1.562	0.937	1C	1.437	0.265		B/CA/CE
QS-790V	D	1.562	0.937	1C	1.437	0.265		V/CA/CE
QS-1127	D	1.562	0.937	3SS	1.490	0.406		B/CA/SS
QS-1681	D	1.562	0.937	3SS	1.437	0.265		B/CA/SS
QS-1681V	D	1.562	0.937	3SS	1.437	0.265		V/CA/SS
QS-1741A	D	1.562	0.937	2SS	1.500	0.437		B/CA/SS
QS-2024	D	1.562	0.937	1C	1.500	0.406		B/CA/CE
QS-2025	D	1.562	0.937	1SS	1.500	0.406		B/CA/SS
QS-2026	D	1.562	0.937	3C	1.500	0.406		B/CA/CE
QS-2027	D	1.562	0.937	3SS	1.500	0.406		B/CA/SS
QS-2027V	D	1.562	0.937	3SS	1.500	0.406		V/CA/SS
QS-2724V	D	1.625	0.937	3C	1.500	0.406		V/CA/CE
QS-2753V	D	1.625	0.937	3SC	1.500	0.406	MONEL	V/SC/SC
QS-3116V	D	1.562	0.937	3SC	1.500	0.406	316SS	V/CA/SC
QS-4307 HC	D	1.562	0.937	3TC	1.500	0.406	HC	B/CA/TC
QS-4318N	D	1.562	0.937	1SC	1.500	0.406		N/CA/SC
QS-5320A	D	1.562	0.937	3SS	1.437	0.250		B/CA/SS
QS-4408-01	DB(SP)	1.625	1.250	---	---	---	KALREZ	
	BALANCED	ROTARY					O-RING	
QS-188	E	1.343	1.375	1C	1.500	0.406		B/CA/CE
QS-188V	E	1.406	1.375	3C	1.500	0.406		V/CA/CE
QS-188V-HC	E	1.406	1.375	1C	1.500	0.406	HC	V/CA/CE
QS-229	E	1.343	1.375	3SS	1.500	0.406		B/CA/SS
QS-229V	E	1.406	1.375	3SS	1.500	0.406		V/CA/SS
QS-776	E	1.343	1.375	3C	1.500	0.406		B/CA/CE
QS-935	E	1.343	1.375	1SS	1.500	0.406		B/CA/SS
QS-935V-HC	E	1.406	1.375	3SS	1.500	0.406	HC	V/CA/SS
QS-936	E	1.343	1.375	---	---	---		B/CA/---
QS-997	E	1.343	1.375	3C	1.625	0.406		B/CA/CE

NOTE: HC - HARD CARBON



Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>.875 (7/8") (continued)</b>								
QS-998	E	1.343	1.375	3SS	1.625	0.406		B/CA/SS
QS-2028	E	1.343	1.375	1C	1.500	0.406		B/CA/CE
QS-2029	E	1.343	1.375	1SS	1.500	0.406		B/CA/SS
QS-2030	E	1.343	1.375	3C	1.500	0.406		B/CA/CE
QS-2031	E	1.343	1.375	3SS	1.500	0.406		B/CA/SS
QS-3260N	E	1.406	1.375	3SC	1.500	0.406		N/CA/SC
QS-7859V	E	1.406	1.375	1SS	1.312	0.406	316SS	V/CA/SS
QS-7896V	E	1.406	1.375	3TC	1.500	0.406	MONEL	V/CA/TC
QS-7915AN	E	1.343	1.375	51	---	PLT		N/CA/---
QS-7992V	E	1.406	1.375	3TC	1.500	0.406	316SS	V/CA/TC
QS-3436A	F	1.546	0.575	3SS	1.625	0.375		B/CA/SS
QS-3450A	F	1.546	0.475	53	---	PLT		B/CA/SS
QS-3451A	F	1.500	0.450	53	---	PLT		B/CA/SS
QS-3452A	F	1.500	0.450	53	---	PLT		B/CA/SS
QS-3453A	F	1.546	0.475	53	---	PLT		B/CA/SS
QS-3455A	F	1.546	0.475	52	---	PLT		B/CA/SS
QS-3456A	F	1.500	0.475	53	---	PLT		B/CA/SS
QS-3009	G	1.398	0.787	1C	1.500	0.406	316SS	B/CA/CE
QS-3507V	G	1.398	0.787	1SC	1.500	0.406	316SS	V/TC/SC
QS-287	J	1.350	0.875	1C	1.500	0.375		B/CA/CE
QS-197	K	1.281	1.250	---	---	---		B/CA/---
QS-878	K	1.281	1.250	1SS	1.500	0.406		B/CA/SS
QS-892	K	1.281	1.250	1C	1.500	0.406		B/CA/CE
QS-892V	K	1.281	1.250	3C	1.500	0.406		V/CA/CE
QS-1099	K	1.281	1.250	1C	1.500	0.406		B/CA/CE
QS-4205A	K	1.281	1.250	51	---	PLT		B/CA/SS
QS-1705A	L-2	1.375	1.050	---	---	---		B/CA/---
QS-4794A	L-2	1.437	1.250	25CA	1.525	0.514		B/SS/CA
QS-140	R	1.562	1.625	---	---	---		B/CA/---
QS-428	R	1.562	1.625	1C	1.500	0.406		B/CA/CE
QS-685	R	1.562	1.625	1SS	1.500	0.406		B/CA/SS
QS-10003	SP	SP	0.937	---	---	---		B/CA/---
QS-6940A	U	1.312	1.500	3SS	1.375	0.406		B/CA/SS

NOTE: PLT - PLATE SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>.875 (7/8") (continued)</b>								
QS-9009	T9	1.437	0.937	2C	1.500	0.406	316SS	CA/CE
QS-9009-01	T9	1.437	0.937	---	---	---	316SS	CA/---
QS-8065	T8-1	1.437	0.937	3 SC	1.500	0.406	316SS	B/SC/SC
<b>.937 (15/16") SHAFT</b>								
QS-1755A	C	1.687	1.000	1B	1.750	0.437		B/CA/BR
QS-1760	C	1.687	0.843	1SS	1.750	0.344		B/CA/SS
QS-1765A	C	1.594	0.843	3SS	2.050	0.469		B/CA/SS
QS-1770AN	C	1.687	0.843	1SS	1.750	0.344		N/CA/SS
QS-1780A	C	1.687	1.375	1SS	1.750	0.437		B/CA/SS
QS-5110AN	C	1.687	1.000	52	---	PLT		N/CA/SS
QS-5197AN	C	1.687	1.000	51	---	PLT		N/CA/SS
QS-9460A	C	1.687	0.750	8SS	1.750	0.234		B/CA/SS
QS-9444AN	D	2.375	1.625	7SS	M.O.S.	0.437		N/CA/SS
QS-4506	E	1.437	1.625	3SC	1.562	0.437		E/CA/SC
QS-9470A	F	1.625	0.625	8SS	1.750	0.234		B/CA/SS
QS-1775AN	L-1	1.594	0.600	---	---	---		N/CA/---
QS-527	U	1.437	1.656	2C	1.562	0.406		B/CA/CE
QS-560	U	1.437	1.656	2SS	1.562	0.406		B/CA/SS
QS-560V	U	1.437	1.656	3SS	1.562	0.406		V/CA/SS
QS-823	U	1.437	1.656	3SS	1.562	0.406		B/CA/SS
QS-824	U	1.437	1.656	3C	1.562	0.406		B/CA/CE
QS-845	U	1.437	1.656	3SS	1.562	0.406		B/CA/SS
<b>.968 SHAFT</b>								
QS-3275AN	C	1.687	1.000	2B	1.625	0.375		N/CA/BR
QS-6357AN	C	1.687	1.250	51	2.000	PLT		N/CA/SS
QS-9700	C	1.687	1.000	1C	1.625	0.375		V/CA/CE
<b>.984 (25MM) SHAFT</b>								
QS-20-52	C	1.687	1.000	1C	1.750	0.406		B/CA/CE
QS-21-52	C	1.687	1.000	1C	1.750	0.406		B/CA/CE
QS-1785AN	C	1.687	0.843	---	---	---		N/CA/---
QS-1790AN	C	1.687	0.843	3SS	1.500	0.375		N/CA/SS
QS-3112V	C	1.687	1.000	1C	1.625	0.437		V/CA/CE
QS-4591V	C	1.687	1.000	3SC	1.750	0.406		V/CA/SC

NOTE: PLT - PLATE SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>.984 (25MM) (continued)</b>								
QS-5723	C	1.508	1.181	1SC	1.575	0.394	316SS	E/CA/SC
QS-5729V	C	1.508	1.181	2C	1.575	0.394		V/CA/CE
QS-7815YB1	C	1.687	----	SP	---	---		
QS-3167V HC	D	1.812	1.000	1TC	1.625	0.437	HC	V/CA/TC
QS-3728V	D	1.812	1.000	1C	1.625	0.437		V/CA/CE
QS-3900 HC	D	1.750	1.000	1C	1.625	0.437	HC	B/CA/SS
QS-4517	D	1.812	1.000	1C	1.625	0.437		B/CA/CE
QS-7918V HC	D	1.812	1.000	1SS	1.625	0.437	HC	V/CA/SS
QS-7991	D	1.812	1.000	2SS	1.625	0.500		B/CA/SS
QS-1909	G	1.535	0.787	1SC	1.675	0.437	316SS	V/SC/SC
QS-2736	G	1.535	0.787	1SC	1.575	0.236	316SS	B/SC/SC
QS-25SCSC	K	1.687	1.250	2SC	44MM	0.406		B/SC/SC
QS-2900AN	L-1	1.688	1.375	3B	1.625	0.500		N/CA/BR
<b>1.000 (1") SHAFT</b>								
QS-360	A	1.687	0.812	1C	1.625	0.437		B/CA/CE
QS-360V	A	1.687	0.812	3C	1.625	0.437	*	V/CA/CE
QS-360V-HC	A	1.687	0.812	1C	1.625	0.437	HC	V/CA/CE
QS-370	A	1.687	0.812	1SS	1.625	0.437		B/CA/SS
QS-405	A	1.687	0.812	15C	1.625	0.625		B/CA/CE
QS-777	A	1.687	0.812	3C	1.625	0.437		B/CA/CE
QS-778	A	1.687	0.812	3SS	1.625	0.437	*	B/CA/SS
QS-975	A	1.687	0.812	---	---	---		B/CA/---
QS-1014	A	1.687	0.812	1C	1.625	0.437		B/CA/CE
QS-1086	A	1.687	0.812	3C	2.000	0.406		B/CA/CE
QS-1115	A	1.687	0.812	1C	1.625	0.437		B/CA/CE
QS-1164	A	1.687	0.812	1SS	1.625	0.437		B/CA/SS
QS-5235	A	1.687	0.812	1C	1.625	0.437		B/CA/CE
QS-5630A	A	1.687	0.812	3SS	1.625	0.437		B/CA/SS
QS-5630AV	A	1.687	0.812	3SS	1.625	0.437		V/CA/SS
QS-1619	B	1.625	0.874	1C	1.625	0.437		B/CA/CE
QS-1806A	B	1.875	0.812	1C	1.625	0.437		B/CA/CE
QS-19180A	B	1.875	1.000	---	---	---		B/CA/---
QS-235	C	1.687	1.000	1C	1.625	0.437		B/CA/CE
QS-235-E	C	1.687	1.000	1C	1.625	0.437		E/CA/CE
QS-235-E-HC	C	1.687	1.000	1C	1.625	0.437	HC	E/CA/SC

NOTE: HC - HARD CARBON  
\* - TAPERED SPRING

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.000 (1") (continued)</b>								
QS-235-E-CATC	C	1.687	1.000	3TC	1.625	0.437		E/CA/TC
QS-235-HC	C	1.687	1.000	1C	1.625	0.437	HC/316SS	B/CA/CE
QS-235-CATC	C	1.687	1.000	1TC	1.625	0.437		B/CA/TC
QS-235V	C	1.687	1.000	1C	1.625	0.437		V/CA/CE
QS-235V-E-HC-TC	C	1.687	1.000	1TC	1.625	0.437	HC	E/CA/TC
QS-245	C	1.687	1.000	1C	1.625	0.437	*	B/CA/CE
QS-245-E-HC	C	1.687	1.000	1C	1.625	0.437	HC/*	E/CA/CE
QS-245-HC	C	1.687	1.000	1C	1.625	0.437	HC/*	B/CA/CE
QS-245-CATC	C	1.687	1.000	1TC	1.625	0.437	*	B/CA/TC
QS-245V-HC	C	1.687	1.000	1C	1.625	0.437	HC/*	V/CA/CE
QS-248	C	1.687	1.000	1SS	1.625	0.437	*	B/CA/CE
QS-248-E	C	1.687	1.000	1C	1.625	0.437	*	E/CA/CE
QS-248V	C	1.687	1.000	3SS	1.625	0.437	*/++	V/CA/SS
QS-248V-HC	C	1.687	1.000	1SS	1.625	0.437	HC/*	V/CA/SS
QS-311	C	1.687	1.062	18C	1.700	0.370		B/CA/CE
QS-357	C	1.687	1.000	1SS	1.625	0.437		B/CA/SS
QS-357V	C	1.687	1.000	3C	1.625	0.437		V/CA/CE
QS-357V-HC	C	1.687	1.000	1C	1.625	0.437	HC	V/CA/CE
QS-397	C	1.687	1.000	---	---	---		B/CA/---
QS-413V	C	1.687	1.000	15C	1.625	0.625		V/CA/CE
QS-413V-HC	C	1.687	1.000	15C	1.625	0.625	HC/++	V/CA/SC
QS-499	C	1.687	1.000	3SS	1.625	0.437		B/CA/SS
QS-499-E	C	1.687	1.000	3SS	1.625	0.437	++	E/CA/SS
QS-539	C	1.437	1.625	1C	1.625	0.437		B/CA/CE
QS-539V-HC	C	1.437	1.562	1C	1.625	0.437	HC	V/CA/CE
QS-548	C	1.687	1.000	3C	1.625	0.437	++	B/CA/CE
QS-779	C	1.437	1.625	1SS	1.625	0.437		B/CA/SS
QS-779V-HC	C	1.437	1.562	1SS	1.625	0.437	HC	V/CA/CE
QS-982	C	1.687	1.562	1SS	1.625	0.437		B/CA/SS
QS-982V-HC	C	1.687	1.562	1SS	1.625	0.437	HC	V/CA/SS
QS-1023	C	1.687	1.056	1C	1.625	0.437		B/CA/CE
QS-1034	C	1.687	1.000	28	2.440	0.438		B/CA/SS
QS-1034V	C	1.687	1.000	28	2.438	0.437		V/CA/SS
QS-1048	C	1.437	0.750	1C	1.625	0.437		B/CA/CE
QS-1048V-HC	C	1.437	0.750	1C	1.625	0.437	HC	V/CA/CE
QS-1049	C	1.687	0.750	3C	1.625	0.437		B/CA/CE
QS-1072	C	1.687	1.015	3C	1.812	0.687		B/CA/CE
QS-1094V	C	1.687	0.812	1C	1.625	0.437		V/CA/CE
QS-1094V-HC	C	1.687	0.812	1C	1.625	0.437	HC	V/CA/CE
QS-1094 TCTC	C	1.687	0.812	1TC	1.625	0.437		B/TC/TC
QS-1095	C	1.687	0.812	---	---	---		B/CA/---
QS-1117	C	1.687	0.812	3C	2.380	0.406		B/CA/CE
QS-1123	C	1.687	0.843	1SS	1.625	0.406		B/CA/SS
QS-1123-TC-TC	C	1.687	0.812	1TC	1.625	0.437		B/TC/TC
QS-1126	C	1.687	1.000	1C	1.625	0.406		B/CA/CE
QS-1827A	C	1.437	1.625	1C	1.500	0.375		B/CA/CE
QS-1838AV	C	1.687	0.843	1TC	1.625	0.437		V/CA/TC
QS-1868AN	C	1.687	0.843	1SS	1.625	0.437		N/CA/SS

NOTE: HC - HARD CARBON  
++ - SLOTTED SEAT  
\* - TAPERED SPRING

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.000 (1") (continued)</b>								
QS-1875AN	C	1.687	1.000	51	---	PLT		N/CA/SS
QS-1880AN	C	1.687	1.625	51	---	PLT		N/CA/SS
QS-1906A	C	1.687	0.843	1C	1.625	0.437		B/CA/CE
QS-1925AN	C	1.687	1.000	51	2.125	PLT		N/CA/SS
QS-2069AV	C	1.687	0.843	3SS	1.937	0.563		V/CA/SS
QS-2145V	C	1.687	1.000	---	---	---		V/CA/---
QS-2163	C	1.687	1.000	1C	1.750	0.437		B/CA/---
QS-2216	C	1.687	1.000	1SC	1.625	0.437		B/SC/SC
QS-2748	C	1.675	1.000	1C	1.625	0.375		B/CA/CE
QS-3220	C	1.687	1.000	1C	1.750	0.437		B/CA/CE
QS-3240V HC	C	1.687	0.876	1C	1.625	0.437	HC	V/CA/CE
QS-3440	C	1.687	1.000	1C	1.750	0.437		B/CA/CE
QS-3440V	C	1.687	1.000	1SS	1.750	0.437		V/CA/SS
QS-3619	C	1.687	1.000	3SS	1.750	0.437		B/CA/SS
QS-3755	C	1.687	1.000	3C	1.437	0.437		B/CA/CE
QS-3785V	C	1.687	1.062	1C	1.625	0.437	*	V/CA/CE
QS-3807V	C	1.687	1.000	3SC	1.625	0.437	*/++	V/CA/SS
QS-3824V	C	1.687	1.000	3SS	1.750	0.437		V/CA/SS
QS-4081	C	1.671	1.062	1C	1.625	0.437		B/CA/CE
QS-4095V	C	1.687	1.062	28SS	2.438	0.437		V/CA/SS
QS-4254V	C	1.687	1.755	1SS	1.625	0.437		V/CA/SS
QS-4379	C	1.687	1.000	1C	1.625	0.437	*	E/CA/CE
QS-4350	C	1.687	1.000	3SS	1.625	0.437		E/CA/SS
QS-4515A	C	1.437	1.625	1C	1.750	0.437		B/CA/CE
QS-5039	C	1.437	0.812	2SS	1.750	0.437		B/CA/SS
QS-5082V	C	1.437	1.562	1SS	1.625	0.437		V/CA/SS
QS-5170AV	C	1.687	1.562	1SS	1.625	0.437		V/CA/SS
QS-6161AN	C	1.687	1.500	51	---	PLT		N/CA/SS
QS-6288AN	C	1.687	1.300	52	---	PLT		N/CA/SS
QS-6430AN	C	1.687	1.000	52	---	PLT		N/CA/SS
QS-7207V	C	1.687	1.000	3SS	1.750	0.437		V/CA/SS
QS-7434	C	1.687	0.812	1C	1.625	0.375		B/CA/CE
QS-9158AN	C	1.687	1.562	52	---	PLT		N/CA/PLT
QS-9178AN	C	1.687	1.000	52	---	PLT		N/CA/PLT
QS-9179AN	C	1.687	1.625	52	---	PLT		N/CA/PLT
QS-9420AN	C	1.687	1.375	52	---	PLT		N/CA/PLT
QS-10005	C	1.687	1.000	1SC	1.875	0.437		B/SC/SC
QS-1700-01V	C	1.687	1.000	3SS	1.812	0.343		V/CA/SS
QS-10037	C	1.687	1.000	---	---	---		N/CA/---
QS-159N	D	1.750	1.000	3SS	1.625	0.437		N/CA/SS
QS-227V	D	1.750	1.062	1SS	1.750	0.437		V/CA/SS
QS-252	D	1.750	1.062	3SS	1.625	0.437		B/CA/CE
QS-252-E CASC	D	1.812	1.062	3SC	1.625	0.437	++	E/CA/SC
QS-252-HC	D	1.750	1.062	3SS	1.625	0.437	HC/++	B/CA/SS
QS-380	D	1.750	1.062	1C	1.625	0.437		B/CA/CE
QS-380V	D	1.812	1.062	1C	1.625	0.437	++	V/CA/CE

NOTE:      HC      - HARD CARBON  
              PLT      - PLATE SEAT  
              ++      - SLOTTED SEAT  
              \*      - TAPERED SPRING



Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.000 (1") (continued)</b>								
QS-380V-HC	D	1.750	1.062	1C	1.625	0.437	HC/++	V/CA/CE
QS-398	D	1.750	1.062	---	---	---		B/CA/---
QS-438	D	1.750	1.062	18C	1.700	0.370		B/CA/CE
QS-460	D	1.750	1.062	1SS	1.625	0.437		B/CA/SS
QS-460-HC	D	1.750	1.062	1SS	1.625	0.437	HC/++	B/CA/SS
QS-460V	D	1.812	1.062	1SS	1.625	0.437		V/CA/CE
QS-460V-HC	D	1.750	1.062	1SS	1.625	0.437	HC	V/CA/CE
QS-460TCSC	D	1.750	1.062	1SC	1.625	0.437		B/TC/SC
QS-789	D	1.750	1.062	3C	1.625	0.437		B/CA/CE
QS-987	D	1.750	1.062	3C	1.875	0.437		B/CA/CE
QS-1046	D	1.750	1.062	1C	1.625	0.437		B/CA/CE
QS-1138	D	1.750	1.000	3C	1.625	0.437		B/CA/CE
QS-1630	D	1.750	1.000	3SS	1.625	0.312		E/CA/SS
QS-1940AN	D	1.750	1.375	3SS	1.625	0.312		N/CA/SS
QS-2032	D	1.750	1.062	1C	1.625	0.437		B/CA/CE
QS-2033V	D	1.750	1.062	3C	1.625	0.437		V/CA/CE
QS-2034	D	1.750	1.062	3SS	1.625	0.437		B/CA/SS
QS-2164V	D	1.750	1.062	1C	1.750	0.437	++	V/CA/SS
QS-2703V	D	1.750	1.000	3TC	1.625	0.437		V/SC/TC
QS-2725	D	1.750	1.000	3C	1.625	0.437		B/CA/CE
QS-2728V-HC	D	1.750	1.000	3SC	1.625	0.437	HC	V/CA/SC
QS-3241 HC	D	1.750	1.062	3SS	1.625	0.437	HC/++	B/CA/SS
QS-3250N	D	1.750	1.000	3SS	1.625	0.312		N/CA/SS
QS-3266V	D	1.750	1.000	3C	1.625	0.437		V/CA/CE
QS-4137	D	1.750	1.000	3C	1.625	0.312		E/CA/CE
QS-4297	D	1.750	1.000	3SS	1.625	0.312		B/CA/SS
QS-4394V	D	1.750	1.000	3SC	1.625	0.312		V/CA/SC
QS-4453	D	1.812	25MM	1SS	1.750	0.437		B/CA/SS
QS-4601V	D	1.750	1.062	3TC	1.625	0.312		V/SC/TC
QS-6328V	D	1.750	1.000	1C	1.625	0.437		V/CA/CE
QS-6329	D	1.750	1.000	3SS	1.625	0.312		B/CA/SS
QS-3273V-HC	DB	1.812	1.312	3SS	1.500	0.406	HC	V/CA/SS
QS-4253N	DB	1.812	1.312	3SC	1.500	0.406		N/CA/SC
QS-4255V	DB	1.812	1.312	3TC	1.500	0.406		V/CA/TC
QS-4289V	DB	1.812	1.312	3SS	1.500	0.406	316SS	V/CA/SS
QS-4579V	DB	1.812	1.312	1C	32MM	10.3MM		V/CA/CE
QS-236	E	1.500	1.562	1SS	1.625	0.437		B/CA/SS
QS-236N	E	1.500	1.562	1SS	1.625	0.437		N/CA/SS
QS-236 HC	E	1.500	1.562	1SS	1.625	0.437	HC	B/CA/SS
QS-236V-HC	E	1.500	1.562	1SS	1.625	0.437	HC	V/CA/SS
QS-251	E	1.500	1.187	3SS	1.625	0.437		B/CA/SS
QS-557	E	1.500	1.562	3C	1.625	0.437		B/CA/SS
QS-695	E	1.500	1.562	2SS	1.625	0.406		B/CA/SS
QS-754	E	1.500	1.562	1C	1.625	0.437		B/CA/CE
QS-754-HC	E	1.500	1.562	1C	1.625	0.437	HC	B/CA/CE
QS-754-E CATC	E	1.500	1.562	3C	1.625	0.437		E/CA/TC

NOTE: HC - HARD CARBON  
++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.000 (1") (continued)</b>								
QS-754V-HC	E	1.500	1.562	1C	1.625	0.437	HC	V/CA/CE
QS-791	E	1.500	1.562	3SS	1.625	0.437		B/CA/SS
QS-912	E	1.500	1.562	1C	1.500	0.437		B/CA/CE
QS-937	E	1.500	1.562	---	---	---		B/CA/---
QS-1030V	E	1.500	1.562	3SS	1.625	0.437		V/CA/SS
QS-1165	E	1.500	1.562	3C	1.625	0.437		B/CA/CE
QS-1166	E	1.500	1.562	3SS	1.625	0.437		B/CA/SS
QS-1815AN	E	1.500	1.187	---	---	---		N/CA/---
QS-1832AV	E	1.500	1.000	1C	1.625	0.437		V/CA/CE
QS-1855AN	E	1.500	1.000	3SS	2.000	0.500		N/CA/SS
QS-1857V	E	1.500	1.000	3SC	1.625	0.437		V/CA/SC
QS-1860AN	E	1.500	1.000	2SS	1.750	0.250		N/CA/SS
QS-1890A	E	1.500	1.187	2B	1.812	0.437		B/CA/BR
QS-1905A	E	1.500	1.000	1SS	1.625	0.437		B/CA/SS
QS-1905AV	E	1.500	1.000	1SS	1.625	0.437		V/CA/SS
QS-1985AN	E	1.500	1.000	2B	1.687	0.344		N/CA/BR
QS-1995AN	E	1.500	1.000	2B	1.875	0.375		N/CA/BR
QS-2035	E	1.500	1.562	1C	1.625	0.437		B/CA/CE
QS-2036	E	1.500	1.562	1SS	1.625	0.437		B/CA/SS
QS-2065A	E	1.500	0.875	1C	1.625	0.437		B/CA/CE
QS-2070AN	E	1.500	1.000	52	2.500	PLT		N/CA/PLT
QS-2075A	E	1.500	1.000	2C	1.875	0.437		B/CA/CE
QS-2080AN	E	1.500	1.000	2B	2.062	0.282		N/CA/BR
QS-2095AN	E	1.500	1.000	51/1	1.937	PLT		N/CA/PLT
QS-3129	E	1.500	1.562	3C	1.625	0.437	++	B/CA/CE
QS-3589V	E	1.500	1.562	3TC	1.625	0.437		V/CA/TC
QS-3625V	E	1.500	1.562	1SS	1.625	0.437		V/CA/SS
QS-3976V	E	1.500	1.562	3C	1.625	0.437	++	V/CA/CE
QS-4412V	E	1.500	1.562	3SS	1.625	0.437	++	V/CA/SS
QS-4810AN	E	1.500	1.000	2SS	1.625	0.344		N/CA/SS
QS-4882	E	1.500	1.562	---	---	---		B/CA/---
QS-4911AV	E	1.500	1.000	1C	1.625	0.437		V/CA/CE
QS-5785A	E	1.500	1.000	1C	1.750	0.437		B/CA/CE
QS-5785AV	E	1.500	1.000	1C	1.750	0.437		V/CA/CE
QS-6331	E	1.500	1.562	3SS	1.625	0.437	++	B/CA/SS
QS-7540A	E	1.500	1.562	1C	1.625	0.437		B/CA/CE
QS-7540AV	E	1.500	1.562	1C	1.625	0.437		V/CA/CE
QS-3874V	G	1.535	0.813	5TC	1.625	0.437		V/CA/TC
QS-3010V	G	1.535	0.813	1C	1.625	0.437	316SS	V/CA/CE
QS-4195	G	1.535	0.937	3SC	1.625	0.437		B/CA/SC
QS-3042V	G	1.535	1.000	1C	1.625	0.437	++316SS	V/CA/CE
QS-3295	G	1.535	1.000	3C	1.625	0.437	++	B/CA/CE
QS-813	J	1.470	1.000	1C	1.625	0.375		B/CA/CE
QS-879	K	1.687	1.625	1C	1.625	0.437		B/CA/CE

NOTE:      HC      - HARD CARBON  
              PLT      - PLATE SEAT  
              ++      - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.000 (1") (continued)</b>								
QS-879-SC-SC/CA/CE	K	1.687	1.625	1 SC/1C	1.625	0.437		B/SC/SC/CA/CE
QS-879V-SC-TC	K	1.687	1.625	1SC/1TC	1.625	0.437		V/SC/TC/SC/TC
QS-891	K	1.687	1.625	1SS	1.625	0.437		B/CA/CE
QS-3065V	K	1.478	1.718	3SC	1.625	0.437		V/CA/SC
QS-3126	K	1.687	1.875	3SS	1.625	0.437		B/CA/SS
QS-3959V	K	1.687	1.625	1C	1.625	0.437		V/CA/CE
QS-4129	K	1.687	1.625	1SC	1.625	0.437		B/SC/SC
QS-4301	K	1.687	1.625	1SC	1.625	0.437		B/SC/SC/CA/CE
QS-4362	K	1.671	1.625	1SS	1.625	0.437		B/CA/SS
QS-4590	K	1.687	1.625	3SC	1.625	0.437		B/SC/SC
QS-4850AN	K	1.687	1.875	3SS	1.875	0.500		N/CA/SS
QS-9907AN	K	1.687	1.625	52/2	1.250	0.359		N/CA/PLT/SS
QS-1945AN	L-1	1.812	0.625	---	---	---		N/CA/---
QS-2015AN	L-1	1.625	1.000	---	---	---		N/CA/---
QS-2030AN	L-1	1.750	NO SPRING	1CA	1.750	0.390		N/SS/CA
QS-3940AN	L-1	1.500	0.375	8B	1.375	0.175		N/CA/BR
QS-4830AN	L-1	1.562	1.250	---	---	---		N/CA/---
QS-2060AN	L-2	1.625	1.500	---	---	---		N/CA/---
QS-3922AN	L-2	1.875 BORE	1.875	8SS	M.O.S.	0.350		N/CA/SS
QS-3965A	L-2	1.750 BORE	1.475	8SS	M.O.S.	0.187		B/CA/SS
QS-7905AN	L-2	1.625	2.475	---	---	---		N/CA/---
QS-3100	Q	1.875	0.985	---	---	---	Unitized	
QS-3120	Q	1.625	0.885	Special	1.625	0.312		B/CA
QS-3401	Q	1.906	0.471	9SS	---	0.421		B/CA/SS
QS-6305	Q	1.875	0.438	2BR	1.625	0.312		B/CA/BR
QS-6312	Q	1.925	0.885	Special	1.625	0.312		B/CA/BR
QS-141	R	1.750	1.875	---	---	---		B/CA/---
QS-429	R	1.750	1.875	1C	1.625	0.437		B/CA/CE
QS-429V-HC	R	1.750	1.875	1C	1.625	0.437	HC	V/CA/CE
QS-430	R	1.750	1.875	1SS	1.625	0.437		B/CA/SS
QS-1022	R	1.750	1.875	3C	1.625	0.437		B/CA/CE
QS-793	S	1.904	1.906	8SS	1.750	0.250		N/BR/SS
QS-1826AN	SP	1.925	0.500	7SS	M.O.S.	0.360		N/CA/SS

NOTE: HC - HARD CARBON  
PLT - PLATE SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.000 (1") (continued)</b>								
QS-276	T	1.500	2.312	1C	1.625	0.437		B/CA/CE
QS-277	T	1.500	2.312	1SS	1.625	0.437		B/CA/SS
QS-688	T	1.500	2.250	3C	1.625	0.437		B/CA/CE
QS-1631N	T	1.500	1.968	3SS	1.625	0.312		N/CA/SS
QS-1631VSS	T	1.500	2.312	3TC	1.625/1.687	0.437		V/CA/TC
QS-1845AN	T	1.500	1.600	51	2.000	PLT		N/CA/PLT
QS-1850AN	T	1.500	1.600	---	---	---		N/CA/---
QS-1851AN	T	1.500	1.600	8SS	1.690	0.190		N/CA/SS
QS-2115AN	T	1.500	2.000	1C	1.625	0.875		N/CA/CE
QS-2115AV	T	1.500	2.000	1C	1.625	0.875		V/CA/CE
QS-3070AN	T	1.500	1.600	51	---	PLT		N/CA/PLT
QS-3912A	T	1.500	1.875	51	1.625	PLT		B/CA/PLT
QS-3975A	T	1.500	1.500	2SS	2.000	0.437		B/CA/CE
QS-4015AN	T	1.500	1.600	51	---	PLT		N/CA/PLT
QS-4210	T	1.500	2.312	35C	3SC	0.437	++	E/SC/SC
QS-6987RO	T9	1.000	---	---	---	---		CA/---/---
QS-9313	T9	1.562	1.000	2SS	1.625	0.437	316SS	CA/SS
QS-9334	T9	1.562	1.000	2STE	1.625	0.437	316SS	CA/STE
QS-9715	T9	1.562	1.000	Special	2.015	0.593	316SS	CA/SS
QS-9007	T9	1.562	1.000	Special	2.156	0.656	316SS	CA/SS
QS-9018	T9	1.562	1.000	27C	2.156	0.812	316SS	CA/CE
QS-9349	T9T	1.437	1.000	---	---	---	316SS	CA/---/---
QS-9349 CATC	T9T	1.437	1.000	27TC	2.000	0.625	316SS	CA/TC
QS-8091V	T8-1	1.562	1.000	3SC	1.625	0.437	++316SS	V/CA/SC
QS-8116 E	T8-1	1.562	1.000	5TC	1.633	0.437	316SS	E/CA/TC
QS-8705V	T8B1	1.562	1.312	3SC	1.500	0.406	++316SS	V/CA/SC
QS-8112	T8B2	1.750	1.000	3SS	1.625	0.437	316SS	B/CA/SS
QS-8020V	T8B3	1.750	1.000	3C	1.750	0.437	316SS	V/CA/CE
<b>1.040 SHAFT</b>								
QS-2145AN	C	1.687	1.062	51	---	PLT		N/CA/PLT
QS-9291AN	C	1.687	1.062	51	---	PLT		N/CA/PLT
<b>1.062 (1-1/16") SHAFT</b>								
QS-1407A	C	1.687	0.750	51	---	PLT		B/CA/PLT
QS-2140A	C	1.687	1.062	2SS	1.750	0.437		B/CA/SS
QS-2155	C	1.812	1.062	3SS	1.750	0.437	++	B/CA/SS
QS-2155A	C	1.687	1.062	2SS	1.812	0.312		B/CA/SS
QS-2160AN	C	1.687	1.062	---	---	---		N/CA/---
QS-5330A	C	1.687	0.750	52	---	PLT		B/CA/PLT
QS-127	D	1.875	1.062	1SS	1.750	0.437		B/CA/SS
QS-796	D	1.875	1.062	3SS	1.750	0.437		B/CA/SS
QS-797	D	1.875	1.062	3C	1.750	0.437	++	B/CA/CE
QS-3193V	D	1.996	1.062	3SC	1.750	0.437		V/CA/SC

NOTE: PLT - PLATE SEAT  
++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.062 (1-1/16") (continued)</b>								
QS-498	E	1.625	1.593	1SS	1.750	0.437		B/CA/SS
QS-710	E	1.625	1.593	1C	1.750	0.437		B/CA/CE
QS-798	E	1.625	1.593	3C	1.750	0.437	++	B/CA/CE
QS-798V	E	1.625	1.593	3C	1.750	0.437	++	V/CA/CE
QS-799	E	1.625	1.593	3SS	1.750	0.437		B/CA/SS
QS-2162AV	L-1	1.500	1.175	---	---	---		V/CA/---
QS-6694AN	L-1	2.000	1.375	---	---	---		N/CA/---
QS-9338	T9	1.625	1.000	27SS	1.812	0.437	316SS	CA/SS
QS-1946AV	Z	2.125	0.950	SEATS UNITIZED WITH SEAL				V/CA
<b>1.083 SHAFT</b>								
QS-2093A	C	1.812	1.062	2B	1.937	0.437		B/CA/BR
QS-2165A	C	1.812	1.062	2B	1.937	0.437		B/CA/BR
<b>1.125 (1-1/8") SHAFT</b>								
QS-346V	C	1.812	1.062	1TC	1.750	0.437		V/TC/TC
QS-348	C	1.812	1.062	---	---	---		B/CA/---
QS-355	C	1.812	1.062	1SS	1.750	0.437		B/CA/CE
QS-355-HC	C	1.812	1.062	1SS	1.750	0.437	HC	B/CA/SS
QS-355-SC-SC	C	1.812	1.062	1SC	1.750	0.437		B/SC/SC
QS-355V	C	1.812	1.062	3SS	1.750	0.437	++	V/CA/SS
QS-355V-HC	C	1.812	1.062	1SS	1.750	0.437	HC	V/CA/SS
QS-355V-CASC	C	1.812	1.062	3SC	1.750	0.437	++	V/CA/SC
QS-356	C	1.812	1.062	1C	1.750	0.437		B/CA/CE
QS-356-E	C	1.812	1.062	1C	1.750	0.437		E/CA/CE
QS-356-E-CASC	C	1.812	1.062	1SC	1.750	0.437		E/CA/SC
QS-356-E-SC-SC	C	1.812	1.062	1SC	1.750	0.437		E/SC/SC
QS-356-HC	C	1.812	1.062	1C	1.750	0.437	HC	E/CA/CE
QS-356-HC-TC	C	1.812	1.062	1TC	1.750	0.437	HC	B/CA/TC
QS-356-SC-TC	C	1.812	1.062	1TC	1.750	0.437		B/SC/TC
QS-356-TC-TC	C	1.812	1.062	1TC	1.750	0.437		B/TC/TC
QS-356V	C	1.812	1.062	3C	1.750	0.437	*	V/CA/CE
QS-356V-HC	C	1.812	1.062	1C	1.750	0.437	HC	V/CA/CE
QS-356V-SC-SC	C	1.812	1.062	1SC	1.750	0.437		V/SC/SC
QS-529	C	1.812	1.062	3SS	1.750	0.437		B/CA/SS
QS-529-E	C	1.812	1.062	3SS	1.750	0.437	++	E/CA/SS
QS-529V-HC-SC	C	1.812	1.062	3SC	1.750	0.437	HC/++	V/CA/SC
QS-549	C	1.812	1.062	25C	1.750	0.437		B/CA/CE

NOTE: HC - HARD CARBON  
++ - SLOTTED SEAT  
\* - TAPERED SPRING



Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.125 (1-1/8") (continued)</b>								
QS-588	C	1.812	1.062	3SS	1.750	0.437	++	B/CA/SS
QS-627	C	1.812	1.406	1C	1.750	0.437	++	B/CA/CE
QS-801	C	1.812	1.062	3C	1.750	0.437		B/CA/CE
QS-983	C	1.812	1.562	1SS	1.750	0.437		B/CA/SS
QS-983V	C	1.812	1.562	3SS	1.750	0.437	++	V/CA/SS
QS-983V-TC-TC	C	1.812	1.562	3TC	1.750	0.437	++	V/TC/TC
QS-1014AN	C	1.812	0.700	52/1	2.062	PLT		N/CA/PLT/SS
QS-1052	C	1.812	1.062	1C	1.750	0.437		B/CA/CE
QS-1122	C	1.812	1.500	1C	1.937	0.437		B/CA/CE
QS-1125SCSC	C	1.625	1.062	1SC	1.750	0.437		B/SC/SC
QS-1125SCTC	C	1.625	1.062	1TC	1.750	0.437		B/SC/TC
QS-1143	C	1.812	1.062	3SS	1.750	0.437		B/CA/SS
QS-1167	C	1.812	1.062	1SS	1.750	0.437	*	B/CA/SS
QS-1332A	C	1.812	1.062	51	---	PLT		B/CA/PLT
QS-1682	C	1.812	1.062	1C	1.750	0.437	*	B/CA/CE
QS-2185AN	C	1.812	1.062	3SS	1.625	0.500		N/CA/SS
QS-2185AV	C	1.812	1.062	3SS	1.625	0.500		V/CA/SS
QS-2187A	C	1.812	1.062	8SS	---	PLT		B/CA/SS
QS-2205AN	C	1.812	1.062	---	---	---		N/CA/---
QS-2226 HC	C	1.812	1.062	3TC	1.750	0.437	HC/++	E/CA/TC
QS-2227	C	1.812	1.562	1SS	1.750	0.437		B/CA/SS
QS-2240AN	C	1.812	1.500	51	1.875	PLT		N/CA/PLT
QS-2250A	C	1.812	1.000	51	2.250	PLT		B/CA/PLT
QS-2255AN	C	1.812	1.562	2SS	1.750	0.375		N/CA/SS
QS-2260A	C	1.812	1.062	52	---	PLT		B/CA/PLT
QS-2261A	C	1.812	1.062	3SS	2.843	0.375		B/CA/SS
QS-2270AN	C	1.812	2.375	51	2.562	PLT		N/CA/PLT
QS-2280AN	C	1.812	1.500	51	2.562	PLT		N/CA/PLT
QS-2285AN	C	1.812	1.500	2SS	2.000	0.500		N/CA/SS
QS-2285AV	C	1.812	1.500	2SS	2.000	0.500		V/CA/SS
QS-2350A	C	1.812	1.062	2SS	2.000	0.500		B/CA/SS
QS-2386AV	C	1.812	1.062	1TC	1.750	0.437		V/CA/TC
QS-3234V TCSC	C	1.812	1.062	1SC	1.750	0.437		V/TC/SC
QS-3239V HC	C	1.812	1.062	1TC	1.750	0.437	HC	V/CA/TC
QS-3833	C	1.812	1.064	2SS	1.750	0.437		B/CA/SS
QS-3965 HC	C	1.812	1.062	1SC	1.750	0.437	HC	E/CA/SC
QS-4037V	C	1.812	1.062	3SC	1.750	0.437	++	V/SC/SC
QS-4047V	C	1.812	1.062	1SS	1.750	0.437		V/CA/SS
QS-4295V	C	1.812	1.062	1TC	1.750	0.437	MONEL	V/CA/TC
QS-4443	C	1.812	1.062	1SC	1.750	0.437		B/CA/SC
QS-4454V	C	1.812	1.062	3TC	1.750	0.437	++	V/TC/TC
QS-4505V	C	1.812	1.062	3SC	1.750	0.437	++	V/CA/SC
QS-7325 HC	C	1.812	1.062	1TC	1.750	0.437	HC	E/CA/TC
QS-7608V	C	1.812	1.062	3SC	1.750	0.437	++	V/CA/SC
QS-7920AN	C	1.812	1.562	51	---	PLT		N/CA/PLT
QS-9375AN	C	1.812	1.562	51	---	PLT		N/CA/PLT

NOTE: HC - HARD CARBON  
PLT - PLATE SEAT  
++ - SLOTTED SEAT  
\* - TAPERED SPRING

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.125 (1-1/8") (continued)</b>								
QS-9376AN	C	1.812	2.500	52	---	PLT		N/CA/PLT
QS-254	D	1.875	1.062	3SS	1.750	0.437		B/CA/SS
QS-344	D	1.875	1.062	1C	1.750	0.437		B/CA/CE
QS-521	D	1.875	1.062	2SS	1.875	0.437		B/CA/SS
QS-604	D	1.875	1.062	1C	1.750	0.437		B/CA/CE
QS-604-E	D	1.875	1.062	1C	1.750	0.437		E/CA/CE
QS-604V-HC	D	1.875	1.062	1C	1.750	0.437	HC	V/CA/CE
QS-605	D	1.875	1.062	1SS	1.750	0.437		B/CA/SS
QS-605V	D	1.875	1.062	3SS	1.750	0.437		V/CA/SS
QS-605V-HC	D	1.875	1.062	1SS	1.750	0.437	HC	V/CA/SS
QS-613	D	1.875	1.062	1SS	1.750	0.437		B/CA/SS
QS-802	D	1.875	1.062	3C	1.750	0.437		B/CA/CE
QS-1131	D	1.875	1.062	1C	1.750	0.437		B/CA/CE
QS-1140	D	1.875	1.062	3C	1.750	0.437		B/CA/CE
QS-2037	D	1.875	1.062	1C	1.750	0.437		B/CA/CE
QS-2038	D	1.875	1.062	1SS	1.750	0.437		B/CA/SS
QS-2039	D	1.875	1.062	3C	1.750	0.437		B/CA/CE
QS-2040	D	1.875	1.062	3SS	1.750	0.437		B/CA/SS
QS-3712V HC	D	1.937	1.062	3TC	1.750	0.437	HC	V/CA/TC
QS-3918V HC	D	1.875	1.062	1SS	1.750	0.437	HC	V/CA/SS
QS-4223	D	1.937	1.062	1TC	1.750	0.437		B/SC/TC
QS-4271N	D	1.875	1.062	1C	1.750	0.437		N/CA/CE
QS-5116A	D	1.875	1.575	50	1.922	PLT		B/CA/PLT
QS-204	E	1.625	1.625	1C	1.750	0.437		B/CA/CE
QS-204V	E	1.625	1.625	1C	1.750	0.437		V/CA/CE
QS-204-E	E	1.625	1.625	1C	1.750	0.437		E/CA/CE
QS-204-HC	E	1.625	1.625	1C	1.750	0.437	HC	B/CA/CE
QS-204V-CATC	E	1.625	1.625	3TC	1.750	0.437	++	V/CA/TC
QS-204V-HC	E	1.625	1.625	1C	1.750	0.437	HC	V/CA/CE
QS-253	E	1.625	1.187	3SS	1.750	0.437		B/CA/SS
QS-384	E	1.625	1.625	1SS	1.750	0.437		B/CA/SS
QS-384V-HC	E	1.625	1.625	1SS	1.750	0.437	HC	V/CA/SS
QS-584	E	1.625	1.625	3C	1.750	0.437		B/CA/CE
QS-607	E	1.625	1.625	1C	1.687	0.437		B/CA/CE
QS-608	E	1.625	1.625	1SS	1.687	0.437		B/CA/SS
QS-619	E	1.625	2.000	3C	1.812	0.437		B/CA/CE
QS-619V	E	1.625	2.000	3C	1.812	0.437		V/CA/CE
QS-636	E	1.625	2.000	3SS	1.812	0.437		B/CA/SS
QS-885-HC	E	1.625	1.625	3SS	1.750	0.437	HC/++	E/CA/SS
QS-866	E	1.625	1.937	3C	1.750	0.437		B/CA/CE
QS-867	E	1.625	1.937	3SS	1.750	0.437		B/CA/SS
QS-867-E	E	1.625	1.625	3SS	1.750	0.437	++	E/CA/SS

NOTE: HC - HARD CARBON  
PLT - PLATE SEAT  
++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.125 (1-1/8") (continued)</b>								
QS-867TCTC	E	1.625	1.937	3TC	1.750	0.437		B/TC/TC
QS-867V-CATC	E	1.625	1.625	3TC	1.750	0.437	++	V/CA/TC
QS-885	E	1.625	1.625	3SS	1.750	0.437		B/CA/SS
QS-945	E	1.625	2.000	3C	1.812	0.437		B/CA/CE
QS-948	E	1.625	2.000	3SS	1.812	0.437		B/CA/SS
QS-1067	E	1.625	1.625	2SS	1.875	0.521		B/CA/SS
QS-1139	E	1.625	2.031	3C	1.750	0.437		B/CA/CE
QS-1168	E	1.625	1.625	1SS	1.750	0.437		B/CA/SS
QS-1169	E	1.625	1.625	1C	1.750	0.437		B/CA/CE
QS-1170	E	1.625	1.625	1C	1.687	0.437		B/CA/CE
QS-1171	E	1.625	1.625	1SS	1.687	0.437		B/CA/CE
QS-1172	E	1.625	1.937	3C	1.812	0.437		B/CA/CE
QS-1172V	E	1.625	1.625	3C	1.812	0.437		V/CA/CE
QS-1173	E	1.625	1.937	3SS	1.812	0.437		B/CA/SS
QS-1174	E	1.625	1.625	1C	1.750	0.437		B/CA/CE
QS-1175	E	1.625	1.625	1SS	1.750	0.437		B/CA/SS
QS-1330A	E	1.625	1.000	1C	1.750	0.437		B/CA/CE
QS-1330AV	E	1.625	1.000	1C	1.750	0.437		V/CA/CE
QS-1331A	E	1.625	1.000	1SS	1.750	0.437		B/CA/SS
QS-1331AV	E	1.625	1.000	1SS	1.750	0.437		V/CA/SS
QS-1636	E	1.625	1.625	3C	1.812	0.437		B/CA/CE
QS-1637	E	1.625	1.625	3SS	1.812	0.437		B/CA/SS
QS-1638	E	1.625	1.625	3C	1.812	0.437		B/CA/CE
QS-1639V	E	1.625	1.625	3SS	1.812	0.437		V/CA/SS
QS-1668	E	1.625	1.625	3TC	1.812	0.437		B/CA/TC
QS-1668V	E	1.625	1.625	3TC	1.812	0.437		V/CA/TC
QS-1670	E	1.625	1.625	3TC	1.812	0.437		B/CA/TC
QS-2103	E	1.625	1.625	---	---	---		B/CA/---
QS-2171A	E	1.625	1.875	1C	1.750	0.437		B/CA/CE
QS-2195A	E	1.625	1.625	2SS	2.000	0.437		B/CA/SS
QS-2265A	E	1.625	1.625	2SS	1.750	0.406		B/CA/SS
QS-2275A	E	1.625	1.187	5I	2.565	PLT		B/CA/PLT
QS-2325AN	E	1.625	1.546	1C	1.750	0.437		N/CA/CE
QS-2355AN	E	1.625	1.187	3SS	2.125	0.437		N/CA/SS
QS-2355AV	E	1.625	1.187	3SS	2.125	0.437		V/CA/SS
QS-2375AN	E	1.625	2.031	2B	1.812	0.437		N/CA/BR
QS-2385AN	E	1.625	1.187	2B	1.812	0.437		N/CA/BR
QS-2738V	E	1.625	1.625	3SS	1.750	0.437	LC	V/CA/SS
QS-3060V HC	E	1.625	1.406	3C	1.750	0.437	HC/LC/ ++	V/CA/CE
QS-3063 E	E	2.000	1.333	3SS	2.000	0.375		E/CA/SS
QS-3163 HC	E	1.625	1.625	5TC	1.750	0.437	HC	B/CA/TC
QS-3291	E	1.625	2.000	2TC	1.812	0.437		E/CA/TC
QS-3653N	E	1.937	1.333	3SS	2.000	0.375	++	N/CA/SS
QS-4006A	E	1.625	1.625	1C	1.750	0.437		B/CA/CE
QS-4262	E	1.625	1.625	3SS	1.750	0.437	++	B/CA/SS
QS-4300V	E	1.625	1.625	3SS	1.750	0.437	++	V/CA/SS
QS-4421	E	1.625	1.625	3C	1.750	0.437		E/CA/CE

NOTE:      HC      - HARD CARBON  
              LC      - LOCK COLLAR  
              PLT     - PLATE SEAT  
              ++      - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.125 (1-1/8") (continued)</b>								
QS-4565E HC	E	1.625	1.625	3TC	1.750	0.437	HC/++	E/CA/TC
QS-4945A	E	1.625	1.000	2SS	1.937	0.437		B/CA/SS
QS-6334V	E	1.937	1.333	3SS	2.000	0.375		V/CA/SS
QS-7967	E	1.937	1.333	3SS	2.000	0.375		B/CA/SS
QS-9908AN	E	1.625	1.187	1SS	1.750	0.312		N/CA/SS
QS-9944A	E	1.625	1.187	3C	1.750	0.437		B/CA/CE
QS-9944AV	E	1.625	1.187	3C	1.750	0.437		V/CA/CE
QS-3817	EB	1.625	1.937	3TC	1.625	0.437		B/CA/TC
QS-3013V CASC	G	1.654	1.062	25	1.750	0.437	316SS	V/CA/SC
QS-4425	G	1.654	1.024	1SC	1.750	0.437	316SS	B/SC/SC
QS-814	J	1.590	1.000	1C	1.750	0.375		B/CA/CE
QS-215	K	1.812	1.625	---	---	---		B/CA/---
QS-861	K	1.812	1.625	---	---	---		B/CA/---
QS-1176	K	1.812	1.625	1C	1.750	0.437		B/CA/CE
QS-1177	K	1.812	1.625	1SS	1.750	0.437		B/CA/SS
QS-2225AN	K	1.812	1.625	51	2.125	PLT		N/CA/PLT
QS-2235AN	K	1.812	1.625	51	3.000	PLT		N/CA/SS
QS-4177V	K	1.812	1.625	1SC 1CE	1.750	0.437		V/CA/SC/SC /CE
QS-6510AN	K	1.812	1.250	2SS	1.875	0.437		N/CA/SS
QS-2290AN	L-1	1.787	0.750	---	---	---		N/CA/---
QS-5190AN	L-1	1.725	NO SPRING	---	---	---		N/CA/---
QS-5295AN	L-1	1.750	1.000	---	---	---		N/CA/---
QS-4796A	L-2	1.625	1.000	25CA	1.770	0.625		B/SS/CA
QS-6845AN	L-2	1.750	2.750	51	2.125	PLT		N/CA/PLT
QS-6318V	Q	1.578	0.402	9BR	1.578	0.234		V/CA/BR
QS-654	R	1.875	1.875	1SS	1.750	0.437		B/CA/SS
QS-676	R	1.875	1.875	1C	1.750	0.437		B/CA/CE
QS-3731	Special	1.875	1.109	3SS	1.625	0.312		B/CA/SS

NOTE: HC - HARD CARBON  
PLT - PLATE SEAT  
++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.125 (1-1/8") (continued)</b>								
QS-886	T	1.625	2.375	3C	1.750	0.437	++	B/CA/CE
QS-918	T	1.625	2.375	3SS	1.750	0.437	++	B/CA/SS
QS-1178	T	1.625	2.375	3C	1.812	0.437		B/CA/CE
QS-3511V	T	1.625	2.125	3C	1.750	0.437	++	V/CA/CE
QS-3976AN	T	1.625	1.625	2C	2.125	0.437		N/CA/CE
QS-9055A	T	1.625	2.000	1C	1.750	0.437		B/CA/CE
QS-545	T/U	1.625	1.812	1C	1.750	0.437		B/CA/CE
QS-282	U	1.625	1.688	3SS	1.750	0.437	++	B/CA/SS
QS-282V	U	1.625	1.688	3SS	1.750	0.437	++	V/CA/SS
QS-3263	U	1.625	1.688	3SC	1.750	0.437	++	V/SC/SC
QS-1103	V	SPEC*	SPEC*	25C	1.765	0.375		B/CA/CE
QS-7232	T9	1.692	1.062	2SS	2.000	0.484	316SS	CA/SS
QS-9327	T9	1.692	1.062	---	---	---	316SS	CA/---
QS-9328	T9	1.687	1.062	28SS	2.354	0.752	316SS	CA/SS
QS-9329	T9	1.687	1.062	28	2.354	0.752	316SS	CA/SS
QS-9355	T9	1.692	1.062	2TC	2.000	0.484	316SS	CA/TC
QS-9327-01	T9	1.687	1.062	---	---	---	316SS	CA/---
QS-9T-1125	T9T	SPEC	SPEC	2SS	2.000	0.437	316SS	CA/SS
QS-8006	T8B2	1.875	1.000	27C	2.375	1.000	316SS	V/CA/CE
<b>1.156 SHAFT</b>								
QS-2345AN	D	2.000	0.900	---	---	---		N/CA/---
<b>1.181 (30MM) SHAFT</b>								
QS-31-52	C	1.875	1.062	1C	2.000	0.437		B/CA/CE
QS-41-52	C	1.875	1.062	1C	2.250	0.437		B/CA/CE
QS-1306A	C	1.875	1.062	1C	1.875	0.437		B/CA/CE
QS-4445A	C	1.875	1.062	1SS	2.000	0.437		B/CA/SS
QS-5185A	C	1.875	1.062	2SS	2.000	0.500		B/CA/SS
QS-5280A	C	1.875	1.375	1C	---	---		B/CA/---
QS-9140A	C	1.875	1.375	3B	1.812	0.656		B/CA/BR
QS-7815YB2	C	1.875	---	1C	---	---		B/CA/CE
QS-136	D	2.000	1.062	1C	1.875	0.437		B/CA/CE
QS-136V	D	2.000	1.062	3	1.875	0.437		V/CA/CE
QS-1179	D	2.000	1.062	1SS	1.875	0.437		B/CA/SS
QS-1179-HC	D	2.000	1.062	1SS	1.875	0.437	HC	B/CA/SS
QS-1179V	D	2.000	1.062	1SS	1.875	0.437		V/CA/SS

NOTE: HC - HARD CARBON  
++ - SLOTTED SEAT



Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.181 (30MM) (continued)</b>								
QS-1179V-HC	D	2.000	1.062	1SS	1.875	0.437	HC	V/CA/SS
QS-2737	D	2.000	1.062	1C	1.875	0.437		B/CA/CE
QS-3938	D	2.000	1.062	1TC	1.875	0.437		V/CA/TC
QS-4675A	K	1.875	2.500	3SS	1.875	0.437		B/CA/SS
QS-2405AN	L-1	1.812	1.250	---	---	---		N/CA/---
<b>1.187 (1-3/16") SHAFT</b>								
QS-1008AN	C	1.875	1.250	51	---	PLT		N/CA/PLT
QS-1044	C	1.937	1.062	30SS	2.834	0.500		B/CA/SS
QS-1044V	C	1.937	1.062	28SS	2.834	0.500		V/CA/SS
QS-2162	C	1.937	1.062	1SS	1.875	0.437		B/CA/SS
QS-2415A	C	1.870	1.062	2SS	1.937	0.312		B/CA/SS
QS-2417AV	C	1.875	0.875	3SS	2.125	0.375		V/CA/SS
QS-2450A	C	1.875	1.250	2SS	2.000	0.500		B/CA/SS
QS-2455AN	C	1.875	1.500	51/2S	2.453	PLT		N/CA/PLT
QS-2458AN	C	1.875	1.062	1C	1.875	0.344		N/CA/CE
QS-3945AN	C	1.875	1.000	3SS	1.875	0.437		N/CA/SS
QS-5660AN	C	1.875	1.500	51	---	PLT		N/CA/PLT
QS-6812	C	1.937	1.062	1SS	1.875	0.437		B/CA/CE
QS-9137AN	C	1.875	1.062	52	---	PLT		N/CA/PLT
QS-9139AN	C	1.875	1.062	52	---	PLT		N/CA/PLT
QS-297	D	2.062	1.000	1C	1.875	0.437		N/CA/CE
QS-589	D	2.062	1.000	3SS	1.875	0.437		B/CA/SS
QS-2445AN	D	2.062	0.875	51	2.375	PLT		N/CA/PLT
QS-4298	D	2.062	1.062	3SS	1.875	0.437		N/CA/SS
QS-255	E	1.812	1.187	3SS	1.875	0.437		B/CA/SS
QS-306	E	1.812	1.187	1C	1.875	0.437		B/CA/CE
QS-306V	E	1.812	1.187	3C	1.875	0.437		V/CA/CE
QS-310	E	1.812	1.625	1C	1.875	0.437		B/CA/CE
QS-343	E	1.812	1.625	1SS	1.875	0.437		B/CA/SS
QS-345	E	1.812	1.625	1C	1.875	0.437		B/CA/CE
QS-1180	E	1.812	1.187	1SS	1.875	0.437		B/CA/SS
QS-2248AN	E	1.812	1.187	51	2.312	PLT		N/CA/PLT
QS-4533	E	1.812	1.187	3SS	1.875	0.437		B/CA/SS
QS-2440AN	L-2	1.812	1.950	---	---	---		N/CA/---
QS-70086	SP	1.812	---	SP	2.438	---		
QS-723	T	1.812	2.375	1C	1.875	0.437		B/CA/CE

NOTE: HC - HARD CARBON  
PLT - PLATE SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.187 (1-3/16") (continued)</b>								
QS-723V	T	1.812	2.375	1C	1.875	0.437		V/CA/CE
QS-724	T	1.812	2.375	1SS	1.875	0.437		B/CA/SS
QS-8074	T8B1	1.867	1.125	30	1.687	0.437	316SS	Special
<b>1.240 SHAFT</b>								
QS-2465AN	C	1.937	1.187	2BR	2.000	0.437		N/CA/BR
QS-2460AN	L-1	1.937	1.750	3BR	2.000	0.656		N/CA/BR
<b>1.250 (1-1/4") SHAFT</b>								
QS-154	C	1.937	1.062	---	---	---		B/CA/---
QS-185	C	1.937	1.062	1C	1.875	0.437		B/CA/CE
QS-185-E	C	1.937	1.062	1C	1.875	0.437		E/CA/CE
QS-185-E-HC	C	1.937	1.062	1C	1.875	0.437	HC	E/CA/CE
QS-185-E-CASC	C	1.937	1.062	3SC	1.875	0.437		E/CA/SC
QS-185E-CATC	C	1.937	1.062	3TC	1.875	0.437		E/CA/TC
QS-185-HC	C	1.937	1.062	1C	1.875	0.437	HC	B/CA/CE
QS-185-SC-SC	C	1.937	1.062	1SC	1.875	0.437		B/SC/SC
QS-185-CATC	C	1.937	1.062	1TC	1.875	0.437		B/CA/TC
QS-185V	C	1.937	1.062	3C	1.875	0.437		V/CA/CE
QS-185V-HC	C	1.937	1.062	3C	1.875	0.437	HC	V/CA/CE
QS-185V-CASC	C	1.937	1.062	1SC	1.875	0.437		V/CA/SC
QS-185V-SC-SC	C	1.937	1.062	1SC	1.875	0.437		V/SC/SC
QS-185V-SC-TC	C	1.937	1.062	1TC	1.875	0.437		V/SC/TC
QS-185V-CATC	C	1.937	1.062	1TC	1.875	0.437		V/CA/TC
QS-185V-TC-SC	C	1.937	1.062	1TC	1.875	0.437		V/TC/SC
QS-185V-TC-TC	C	1.937	1.062	1TC	1.875	0.437		V/TC/TC
QS-246	C	1.937	1.062	1C	1.875	0.437	*	B/CA/CE
QS-246-E-HC	C	1.937	1.062	1C	1.875	0.437	HC/*	E/CA/CE
QS-246V	C	1.937	1.062	3C	1.875	0.437	*	V/CA/CE
QS-246V-HC	C	1.937	1.062	1C	1.875	0.437	HC/*	V/CA/CE
QS-249	C	1.937	1.062	1SS	1.875	0.437	*	B/CA/SS
QS-249V	C	1.937	1.062	3SS	1.875	0.437	*	V/CA/SS
QS-368	C	1.937	1.062	18C	1.687	0.437		B/CA/SC
QS-466	C	1.937	1.062	1C	2.000	0.437		B/CA/CE
QS-466V-HC	C	1.937	1.062	1C	2.000	0.437	HC	V/CA/CE

NOTE: HC - HARD CARBON  
\* - TAPERED SPRING

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.250 (1-1/4") (continued)</b>								
QS-466-SC-SC	C	1.937	1.062	1SC	2.000	0.437		B/SC/SC
QS-466V	C	1.937	1.062	1C	2.000	0.437		V/CA/CE
QS-466V-SC-SC	C	1.937	1.062	1SC	2.000	0.437		V/SC/SC
QS-525	C	1.937	1.062	3SS	1.875	0.437	*	B/CA/SS
QS-597	C	1.937	1.062	18SS	1.687	0.360		B/CA/SS
QS-598	C	1.937	1.062	3SS	1.875	0.437		B/CA/SS
QS-598-E	C	1.937	1.062	3SS	1.875	0.437		E/CA/SS
QS-598-SC-SC	C	1.937	1.062	3SC	1.875	0.437		B/SC/SC
QS-598-CATC	C	1.937	1.062	3TC	1.875	0.437		B/CA/TC
QS-618	C	1.937	1.062	3C	1.875	0.437		B/CA/CE
QS-618-E-HC	C	1.937	1.062	3C	1.875	0.437	HC	B/CA/CE
QS-618-TC-TC	C	1.937	1.062	3TC	1.875	0.437		B/TC/TC
QS-618V CATC	C	1.937	1.062	3TC	1.875	0.437		V/CA/TC
QS-756	C	1.937	1.062	1SS	1.875	0.437		B/CA/SS
QS-756-E	C	1.937	1.062	1SS	1.875	0.437		E/CA/SS
QS-756-HC	C	1.937	1.062	1SS	1.875	0.437	HC	B/CA/SS
QS-756V	C	1.937	1.062	3SS	1.875	0.437		V/CA/SS
QS-756V-HC	C	1.937	1.062	3SS	1.875	0.437	HC	V/CA/SS
QS-756V-CASC	C	1.937	1.062	3SC	1.875	0.437		V/CA/SC
QS-756V-SC-TC	C	1.937	1.062	3TC	1.875	0.437		V/SC/TC
QS-923	C	1.937	1.250	15CS	2.250	0.625	*	B/CA/CESS
QS-923-E	C	1.937	1.250	25C	2.250	0.625	*	E/CA/CE
QS-923V	C	1.937	1.250	25C	2.250	0.625	*	V/CA/CE
QS-978	C	1.937	1.062	1C	1.750	0.365	*	B/CA/CE
QS-978-E	C	1.937	1.062	1C	1.765	0.365	*	E/CA/CE
QS-978-E-HC	C	1.937	1.062	1C	1.765	0.365	HC/*	E/CA/CE
QS-978-E-SC-SC	C	1.937	1.062	1SC	1.765	0.365	*	E/SC/SC
QS-978-E-CATC	C	1.937	1.062	1TC	1.765	0.365	*	E/CA/TC
QS-978-HC	C	1.937	1.062	1C	1.765	0.365	HC/*	B/CA/CE
QS-978-SC-TC	C	1.937	1.062	1TC	1.765	0.365	*	B/SC/TC
QS-978-CATC	C	1.937	1.062	1TC	1.765	0.365	*	B/CA/TC
QS-978V	C	1.937	1.062	1C	1.765	0.365	*	V/CA/CE
QS-978V-HC	C	1.937	1.062	1C	1.765	0.365	HC/*	V/CA/CE
QS-978V-HC-TC	C	1.937	1.062	1TC	1.765	0.365	HC/*	V/CA/TC
QS-978V-HC SC	C	1.937	1.062	1SC	1.765	0.365	HC/*	V/CA/SC
QS-978V-SC-SC	C	1.937	1.062	1SC	1.765	0.365	*	V/SC/SC
QS-978V-TC-TC	C	1.937	1.062	1TC	1.765	0.365	*	V/TC/TC
QS-978V-SCCE	C	1.937	1.062	1C	1.765	0.365	*	V/SC/CE
QS-979	C	1.937	1.062	1SS	1.750	0.365	*	B/CA/SS
QS-979-E	C	1.937	1.062	1SS	1.765	0.365	*	E/CA/SS
QS-979-HC	C	1.937	1.062	1SS	1.765	0.365	HC/*	B/CA/SS
QS-979V	C	1.937	1.062	1SS	1.765	0.365	*	V/CA/SS
QS-979V-HC	C	1.937	1.062	1SS	1.765	0.365	HC/*	V/CA/SS
QS-1018	C	1.937	1.062	3SS	2.000	0.437		B/CA/SS

NOTE: HC - HARD CARBON  
\* - TAPERED SPRING

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.250 (1-1/4") (continued)</b>								
QS-1018-E	C	1.937	1.062	3SS	2.000	0.437		E/CA/SS
QS-1018-E-HC	C	1.937	1.062	3SS	2.000	0.437	HC	E/CA/SS
QS-1018-HC	C	1.937	1.062	3SS	2.000	0.437	HC	B/CA/SS
QS-1018-SC-SC	C	1.937	1.062	3SC	2.000	0.437		B/SC/SC
QS-1018V	C	1.937	1.062	3SS	2.000	0.437		V/CA/SS
QS-1036	C	1.937	1.062	28SS	2.835	0.660		B/CA/SS
QS-1036V	C	1.937	1.062	28SS	2.835	0.660		V/CA/SS
QS-1053	C	1.937	1.062	3SS	1.875	0.437		B/CA/SS
QS-1081N	C	1.937	1.062	1C	1.875	0.437		N/CA/CE
QS-1082N	C	1.937	1.062	1SS	1.875	0.437		N/CA/SS
QS-1083N	C	1.937	1.625	1C	1.875	0.437		N/CA/CE
QS-1084N	C	1.937	1.625	1SS	1.875	0.437		N/CA/SS
QS-1109	C	1.937	1.625	3SS	1.875	0.437		B/CA/SS
QS-1109-CER	C	1.937	1.625	3C	1.875	0.437	++	B/CA/CE
QS-1109-E	C	1.937	1.625	3SS	1.875	0.437		E/CA/SS
QS-1109-HC	C	1.937	1.625	3SS	1.875	0.437	HC	B/CA/SS
QS-1109-SC-TC	C	1.937	1.625	3TC	1.875	0.437		B/SC/TC
QS-1109-TC-TC	C	1.937	1.625	3TC	1.875	0.437		B/TC/TC
QS-1109V	C	1.937	1.625	3SS	1.875	0.437		V/CA/SS
QS-1109V CASC	C	1.937	1.625	3SC	1.875	0.437		V/CA/SC
QS-1910V	C	2.043	1.375	25SC	2.250	0.625	*	V/SC/SC
QS-2122	C	1.937	1.625	1C	1.875	0.437		B/CA/CE
QS-2122-HC	C	1.937	1.625	1C	1.875	0.437	HC	B/CA/CE
QS-2122V	C	1.937	1.625	3C	1.875	0.437		V/CA/CE
QS-2123	C	1.937	1.625	1SS	1.875	0.437		B/CA/SS
QS-2123-HC	C	1.937	1.625	1SS	1.875	0.437	HC	B/CA/SS
QS-2123V	C	1.937	1.625	1SS	1.875	0.437		V/CA/SS
QS-2200V HC	C	1.937	1.062	3SS	2.000	0.437	HC	V/CA/SS
QS-2203-HC	C	1.937	1.062	3SS	1.875	0.437	HC	E/CA/SS
QS-2208	C	1.937	1.062	1TC	1.875	0.437		B/TC/TC
QS-2215 HC	C	1.937	1.625	1C	1.875	0.437	HC	E/CA/SS
QS-2230	C	1.937	1.062	3C	2.000	0.437		B/CA/CE
QS-2230V	C	1.937	1.062	3C	2.000	0.437		V/CA/CE
QS-2501AN	C	1.937	1.300	8SS	1.750	0.562		N/CA/SS
QS-2506AN	C	1.937	1.187	1C	1.937	0.437		N/CA/CE
QS-2515A	C	1.937	0.875	1SS	2.000	0.437		B/CA/SS
QS-2535AN	C	1.937	2.000	5I	2.562	0.437		N/CA/PLT
QS-2581AN	C	1.937	1.062	---	---	---		N/CA/---
QS-3045 HC	C	1.937	1.062	3TC	2.000	0.437	HC	B/CA/TC
QS-3062	C	1.937	1.062	1SC	1.875	0.437	316SS	E/SC/SC
QS-3119V	C	1.937	1.625	1SC	1.875	0.437		V/TC/SC
QS-3131	C	1.921	1.062	1SC	1.875	0.437	316SS	E/CA/SC
QS-3146	C	1.937	1.625	1SC	1.875	0.437		B/TC/SC
QS-3173V	C	1.937	1.062	3SS	1.875	0.437	++	V/CA/SS
QS-3178V	C	1.937	1.062	1SC	2.000	0.437	316SS	V/CA/SC
QS-3185V	C	1.937	1.062	1SS	2.000	0.437		V/CA/SS
QS-3215V	C	2.043	1.273	25SC	2.261	0.640	*	V/SC/SC
QS-3264	C	1.937	1.062	1SC	1.875	0.437		E/TC/SC
QS-3274	C	2.187	1.062	1SC	1.875	0.437		E/CA/SC
QS-3538V	C	1.921	1.062	1SC	1.875	0.437	316SS	V/CA/SC

NOTE: HC - HARD CARBON  
PLT - PLATE SEAT  
++ - SLOTTED SEAT  
\* - TAPERED SPRING

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.250 (1-1/4") (continued)</b>								
QS-3738	C	1.937	1.062	1SC	1.875	0.437		B/CA/SC
QS-3829V	C	1.937	1.625	1C	1.875	0.437		V/SC/CE
QS-3886V	C	1.937	1.062	1C	1.875	0.437	316SS	V/CA/CE
QS-3892V	C	1.937	1.062	1SC	1.875	0.437		V/SC/SC
QS-3933	C	1.937	1.062	3SC	1.875	0.413	MONEL	B/CA/CE
QS-3940V	C	1.937	1.062	3SC	1.875	0.437		V/SC/SC
QS-3945V	C	1.937	0.906	3SS Special	1.875	0.437		V/CA/SS
QS-4029 E	C	1.921	1.062	1TC	1.875	0.437	316SS	E/CA/TC
QS-4040V	C	1.937	1.062	1TC	2.000	0.437	316SS	V/SC/TC
QS-4053	C	1.937	1.625	1SC	1.875	0.437		E/SC/SC
QS-4101V	C	1.937	1.062	1SC	1.875	0.437	316SS	V/SC/SC
QS-4131V	C	1.937	1.062	1SS	2.000	0.437	316SS	V/CA/CE
QS-4150V	C	1.937	1.062	1SC	1.875	0.437	316SS	V/SC/SC
QS-4152	C	1.937	1.062	3SS	1.875	0.437		B/CA/SS
QS-4156	C	1.937	1.062	1SC	1.875	0.437		E/SC/SC
QS-4176V	C	1.937	1.062	1TC	1.875	0.437	316SS	V/CA/TC
QS-4204	C	1.937	1.062	1SC	1.765	0.365	*	E/SC/SC
QS-4211	C	1.937	1.062	1SC	1.875	0.437		B/SC/SC
QS-4247	C	1.937	1.625	1C	1.875	0.437		B/SC/CE
QS-4321AF	C	1.937	1.062	3SC	1.875	0.437	316SS	AF/SC/SC
QS-4332 HC	C	1.937	1.062	1SC	1.765	0.365	HC/*	E/CA/SC
QS-4336 HC	C	1.937	1.625	3SC	1.875	0.437	HC	E/CA/SC
QS-4460AF	C	1.937	1.062	1TC	1.765	0.365	316SS	AF/SC/TC
QS-4463	C	1.937	1.062	1C	1.875	0.437	316SS	B/CA/CE
QS-4464	C	1.937	1.062	1SS	1.875	0.437	316SS	E/CA/SS
QS-4534	C	1.937	1.062	3TC	1.875	0.437		E/TC/TC
QS-4537	C	1.937	1.750	1TC	1.875	0.437		B/TC/TC
QS-4559 HC	C	1.937	1.062	3TC	2.000	0.437	HC	E/CA/TC
QS-4595	C	1.937	1.062	1SC	1.875	0.437	316SS	B/SC/SC
QS-5674V	C	1.799	1.062	1C	1.875	0.437		V/CA/CE
QS-6930AN	C	1.937	1.187	2SS	1.937	0.437		N/CA/SS
QS-6970AN	C	1.937	0.950	1SS	1.875	0.343		N/CA/SS
QS-7343 HC	C	1.937	1.062	3C	2.000	0.437	HC	B/CA/CE
QS-7436 HC	C	1.937	1.062	3TC	1.875	0.437	HC	E/CA/TC
QS-7805V	C	1.937	1.625	1SC	1.875	0.437		V/SC/SC
QS-7908 HC	C	1.937	1.625	1C	1.875	0.437	HC/316SS	B/CA/CE
QS-7938V	C	1.937	1.062	3SS	1.875	0.437	++	V/CA/SS
QS-7938	C	1.937	1.062	3SS	1.875	0.437	++	B/CA/SS
QS-7970A	C	1.937	2.000	2SS	1.875	0.437		B/CA/SS
QS-7970AV	C	1.937	2.000	2SS	1.875	0.437		V/CA/SS
QS-7983V	C	1.937	1.625	1TC	1.875	0.437		V/CA/TC
QS-9359AN	C	1.937	1.625	51	2.687	PLT		N/CA/PLT
QS-G18TS	C	1.937	---	3TC	1.875	---		B/CA/TC
QS-2678B	C	1.937	0.734	---	---	---		B/CA/---
QS-10040B-V	C	1.937	1.062	---	---	---		V/CA/---
QS-326	D	2.000	1.000	3SS	1.937	0.437		B/CA/SS

NOTE:      HC      - HARD CARBON  
              PLT      - PLATE SEAT  
              ++      - SLOTTED SEAT  
              \*      - TAPERED SPRING



Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.250 (1-1/4") (continued)</b>								
QS-326V	D	2.000	1.000	3SS	1.937	0.437		V/CA/SS
QS-381	D	2.000	1.062	1C	1.875	0.437		B/CA/CE
QS-381-E	D	2.000	1.062	1C	1.875	0.437		E/CA/CE
QS-381-HC	D	2.000	1.062	1C	1.875	0.437	HC	B/CA/CE
QS-381-SC-SC	D	2.000	1.062	1SC	1.875	0.437		B/SC/SC
QS-381V	D	2.000	1.062	3C	1.875	0.437		V/CA/CE
QS-383	D	2.000	1.062	1SS	1.875	0.437		B/CA/SS
QS-383V	D	2.000	1.062	3SS	1.875	0.437		V/CA/SS
QS-402	D	2.000	1.062	18C	1.687	0.360		B/CA/CE
QS-416	D	2.000	1.062	---	---	---		B/CA/---
QS-416A	D	2.000	1.062	15C	1.250	0.625		B/CA/CE
QS-439	D	2.000	1.062	18SS	1.687	0.360		B/CA/SS
QS-472	D	2.000	1.062	1C	1.875	0.437		B/CA/CE
QS-510	D	2.000	1.062	1C	2.000	0.437		B/CA/CE
QS-517	D	2.000	1.062	3SS	1.875	0.437		B/CA/SS
QS-517-CATC	D	2.000	1.062	3TC	1.875	0.437		B/CA/TC
QS-786	D	2.000	1.062	1C	1.875	0.437		B/CA/CE
QS-804	D	2.000	1.062	3C	1.875	0.437		B/CA/CE
QS-976	D	2.000	1.062	1C	1.765	0.365		B/CA/CE
QS-976V	D	2.000	1.062	1C	1.765	0.365		V/CA/CE
QS-977V	D	2.000	1.062	1SS	1.765	0.365		V/CA/SS
QS-981	D	2.000	1.000	3SS	1.875	0.437		B/CA/SS
QS-995	D	2.000	1.031	3C	2.125	0.375		B/CA/CE
QS-1021AN	D	2.000	1.375	51	---	PLT		N/CA/PLT
QS-1047	D	2.000	1.062	3SS	1.875	0.437		B/CA/SS
QS-1090	D	2.000	1.031	1C	1.875	0.437		B/CA/CE
QS-1128	D	2.000	1.031	3SS	1.875	0.437		B/CA/SS
QS-1136	D	2.000	1.062	1SS	1.875	0.437		B/CA/SS
QS-1141	D	2.000	1.062	3C	1.875	0.437		B/CA/CE
QS-1632	D	2.000	1.000	3SS	1.875	0.375		B/CA/SS
QS-1632V	D	2.000	1.000	3SS	1.875	0.375		V/CA/SS
QS-2041	D	2.000	1.062	1C	1.875	0.437		B/CA/CE
QS-2042	D	2.000	1.062	1SS	1.875	0.437		B/CA/SS
QS-2043	D	2.000	1.062	3C	1.875	0.437		B/CA/CE
QS-2044	D	2.000	1.062	3SS	1.875	0.437		B/CA/SS
QS-2550AN	D	2.000	1.062	2SS	1.937	0.312		N/CA/SS
QS-2595AN	D	2.000	0.875	51/1SS	---	PLT		N/CA/PLT/S S
QS-2596AN	D	2.000	0.875	52/1SS	---	PLT		N/CA/PLT/S S
QS-2596AV	D	2.000	0.875	52/1SS	---	PLT		V/CA/PLT/S S
QS-3023-HC	D	2.000	1.062	1SC	1.875	0.437	HC	E/CA/SC
QS-3032V	D	2.000	1.031	1SC	1.875	0.437		V/SC/SC
QS-3555	D	2.000	1.062	1SC	1.875	0.437		E/SC/SC
QS-3629V	D	2.000	1.062	3TC	1.875	0.437		V/SC/TC
QS-3685V	D	2.000	1.062	3SS	1.875	0.437		V/CA/SS
QS-3759	D	2.062	1.062	3TC	1.875	0.437	316SS	B/TC/TC
QS-3934N	D	2.000	1.000	3SS	1.875	0.375		N/CA/SS
QS-4071V HC	D	2.000	1.062	3SC	1.875	0.437	HC	V/CA/SC
QS-4073V	D	2.000	1.062	3SC	1.875	0.437		V/CA/SC

NOTE: HC - HARD CARBON  
PLT - PLATE SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.250 (1-1/4") (continued)</b>								
QS-4091V	D	2.000	1.000	3SC	1.875	0.437	316SS	V/SC/SC
QS-4246	D	2.000	1.062	3SC	1.875	0.437		B/CA/SC
QS-4431V	D	2.062	1.062	3SC	1.875	0.437		V/SC/SC
QS-6036V	D	2.000	1.062	2SS	1.875	0.187		V/CA/SS
QS-6337	D	2.000	1.000	3SS	1.875	0.375		B/CA/SS
QS-6339	D	2.000	1.000	3SS	1.875	0.375		B/CA/SS
QS-7245AF	D	2.062	1.000	3SS	1.937	0.437		AF/CA/SS
QS-190AA	D	2.000	1.062	---	---	---		B/CA/---
QS-108N	E	1.812	1.625	1SS	1.875	0.437		N/CA/SS
QS-137	E	1.812	1.625	1SS	1.875	0.437		B/CA/SS
QS-137V	E	1.812	1.625	3SS	1.875	0.437		B/CA/SS
QS-137V-HC	E	1.812	1.625	3SS	1.875	0.437	HC	V/CA/SS
QS-256	E	1.812	1.187	3SS	1.875	0.437		B/CA/SS
QS-256V	E	1.812	1.187	1SS	1.875	0.437		V/CA/SS
QS-264	E	1.812	1.625	3SS	1.875	0.437		B/CA/SS
QS-264-HC-CATC	E	1.812	1.625	3TC	1.875	0.437	HC	B/CA/TC
QS-264V-SC-SC	E	1.812	1.625	3SC	1.875	0.437		V/SC/SC
QS-317V	E	1.812	1.625	1TC	1.875	0.437		V/TC/TC
QS-361	E	1.812	1.625	1CSS	1.875	0.437		B/CA/CE
QS-361-E	E	1.812	1.625	1C	1.875	0.437		E/CA/CE
QS-361-E-HC	E	1.812	1.625	1C	1.875	0.437	HC	E/CA/CE
QS-361-HC	E	1.812	1.625	1C	1.875	0.437	HC	B/CA/CE
QS-361-SC-SC	E	1.812	1.625	1SC	1.875	0.437		B/SC/SC
QS-361-SC-TC	E	1.812	1.625	1TC	1.875	0.437		B/SC/TC
QS-361V	E	1.812	1.625	1C	1.875	0.437		V/CA/CE
QS-361V-HC	E	1.812	1.625	1C	1.875	0.437	HC	V/CA/CE
QS-361V-CASC	E	1.812	1.625	1SC	1.875	0.437		V/CA/SC
QS-361V-SC-TC	E	1.812	1.625	1TC	1.875	0.437		V/SC/TC
QS-361V	E	1.812	1.625	3C	1.875	0.437		V/CA/CE
QS-546	E	1.812	1.625	3C	1.875	0.437		B/CA/CE
QS-1015	E	1.812	1.625	---	---	---		B/CA/---
QS-1029	E	1.812	1.625	3C	1.875	0.437		B/CA/CE
QS-1181	E	1.812	1.625	1SS	1.875	0.437		B/CA/CE
QS-1182	E	1.812	1.625	1C	1.875	0.437		B/CA/CE
QS-1183	E	1.812	1.625	3SS	1.875	0.437		B/CA/SS
QS-1183-HC	E	1.812	1.625	3SS	1.875	0.437	HC	B/CA/SS
QS-1184	E	1.812	1.625	3C	1.875	0.437		B/CA/CE
QS-1185N	E	1.812	1.625	1C	1.875	0.437		N/CA/CE
QS-1186	E	1.812	1.625	1SS	2.000	0.437		B/CA/SS
QS-2128	E	1.812	2.281	3C	1.875	0.437	++	B/CA/CE
QS-2129	E	1.812	2.281	3SS	1.875	0.437		B/CA/SS
QS-2129V	E	1.812	2.281	3SS	1.875	0.437		V/CA/SS
QS-2493AV	E	1.812	1.542	3SS	1.750	0.437		V/CA/SS
QS-2508AV	E	1.812	1.187	3SS	1.875	0.437		V/CA/SS

NOTE: HC - HARD CARBON  
++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.250 (1-1/4") (continued)</b>								
QS-3515	E	1.812	1.625	1SC	1.875	0.437		E/CA/SC
QS-3528	E	1.812	1.187	1SC	1.875	0.437		E/CA/SC
QS-3638V HC	E	1.812	1.625	1TC	2.000	0.437	HC	V/CA/TC
QS-3724	E	1.812	1.625	3SS	1.875	0.437	++	E/CA/SS
QS-3863 HC	E	1.812	1.625	3TC	1.875	0.437	HC/++	E/CA/TC
QS-3872	E	1.812	1.625	1SS	1.875	0.437		E/CA/SS
QS-3913A	E	1.812	1.062	5I	1.812	PLT		B/CA/PLT
QS-4049V	E	1.812	1.625	3SC	1.875	0.437		V/CA/SC
QS-4306	E	1.812	1.625	3SC	1.875	0.437		E/CA/SC
QS-4396V	E	1.812	1.625	3SS	1.875	0.437		V/CA/SS
QS-4428	E	1.812	1.625	1TC	1.875	0.437		B/CA/TC
QS-4538V	E	1.812	1.625	1SC	1.875	0.437		V/SC/SC
QS-4550A	E	1.812	1.625	2B	1.937	0.437		B/CA/BR
QS-5200	E	1.812	1.187	1C	1.875	0.437		B/CA/CE
QS-5340	E	1.812	1.187	1C	1.875	0.437		B/CA/CE
QS-5366	E	1.812	2.281	1C	1.875	0.437		B/CA/CE
QS-6802 HC	E	1.812	1.625	1C	2.000	0.437	HC	B/CA/CE
QS-7719V HC	E	1.812	2.281	3TC	1.875	0.437	HC	V/CA/TC
QS-3883	G	1.811	1.024	1C	1.875	0.437		B/CA/CE
QS-6259V	G	1.811	1.062	1C	1.875	0.437	316SS	V/CA/CE
QS-6260E	G	1.811	1.062	1TC	1.875	0.437	316SS	E/CA/TC
QS-6261E	G	1.811	1.062	1C	1.875	0.437	316SS	E/CA/CE
QS-6264V	G	1.811	1.062	1C	1.875	0.437	316SS	V/CA/CE
QS-6265V	G	1.811	1.024	1SC	1.875	0.437	316SS	V/SC/SC
QS-6266	G	1.811	1.062	1SC	1.875	0.437	316SS	B/CA/SC
QS-7972	G	1.811	1.062	1SC	1.875	0.437		B/SC/SC
QS-815	J	1.960	1.187	1C	2.000	0.375		B/CA/CE
QS-169	K	1.937	1.625	---	---	---		B/CA/---
QS-169SSP	K	1.937	1.406	---	---	---		B/CA/---
QS-176	K	1.937	1.406	1C/1C	1.875/2.000	0.297/0.297		B/CA/CE
QS-228	K	1.937	1.625	3SS	1.875	0.437		B/CA/SS
QS-228V	K	1.937	1.625	3SS	1.875	0.437		V/CA/SS
QS-228V	K	1.937	1.625	1SS	1.875	0.437		V/CA/SS
QS-883	K	1.937	1.750	1C	1.875	0.437		B/CA/CE
QS-883V	K	1.937	1.750	1C	1.875	0.437		V/CA/CE
QS-890	K	1.937	1.875	1SS	1.875	0.437		B/CA/SS
QS-1118	K	1.937	1.625	1C	1.875	0.437		B/CA/CE
QS-1623	K	1.937	2.000	1CS/SS	2.125	0.375		B/CA/CE/SS
QS-2590A	K	1.937	1.875	5I/2	2.125 PLATE	0.437		B/CA/PLT
QS-3184	K	1.937	1.875	3C	2.000	0.375		B/CA/CE
QS-3977A	K	1.937	1.625	2SS	2.250	0.437		B/CA/SS
QS-4179V	K	1.923	1.734	3SC	1.875	0.437		V/SC/SC
QS-4282	K	1.937	1.625	1SC 1CE	1.875	0.437		B/CA/SC/SC /CE

NOTE:      HC      - HARD CARBON  
                 PLT      - PLATE SEAT  
                 ++      - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.250 (1-1/4") (continued)</b>								
QS-4305	K	1.937	1.875	1SC	1.875	0.437		B/SC/SC
QS-4406A	K	1.750	2.500	3SS	1.906	0.437		B/CA/SS
QS-4406AV	K	1.750	2.500	3SS	1.906	0.437		V/CA/SS
QS-4675A	K	1.937	2.500	3SS	1.875	0.437		B/CA/SS
QS-6229	K	1.937	1.625	3C	1.875	0.437	316SS	B/CA/CE
QS-7323	K	1.937	1.750	1TC 1CE	1.875	0.437		B/CA/TC/TC /CE
QS-2520AN	L-1	2.218	1.625	---	---	---		N/CA/---
QS-2570AN	L-1	2.000	NO SPRING	1CA	2.078	0.406		N/SS/CA
QS-2485AN	L-2	1.875	1.750	---	---	---		N/CA/---
QS-7925AN	L-2	1.875	2.500	---	---	---		N/CA/---
QS-426	R	2.000	1.875	1C	1.875	0.437		B/CA/CE
QS-3229V TCSC	R	2.000	1.875	3SC	1.875	0.437	++	V/TC/SC
QS-794	S	2.296	2.218	8	2.215	0.281		NBR/SS
QS-3923AN	S	2.250	2.000	8SS	2.125	0.281		N/CA/SS
QS-308N	T	1.812	2.375	3SS	1.875	0.437		N/CA/SS
QS-1187	T	1.812	2.375	1C	1.875	0.437		B/CA/CE
QS-2211	T	1.812	2.375	3C	1.875	0.437		B/CA/CE
QS-2494A	T	1.812	1.625	1C	1.875	0.437		B/CA/CE
QS-3084	T	1.812	2.375	3TC	1.875	0.437		N/BR/TC
QS-3607	T	1.812	2.375	3SS	1.875	0.437		N/BR/SS
QS-4197 HC	T	1.812	2.375	3SS	1.875	0.437	HC	N/CA/SS
QS-4377	T	1.812	1.937	3SS	2.000	0.312		B/CA/SS
QS-394	U	1.750	1.625	3SS	1.875	0.437		B/CA/SS
QS-394V	U	1.750	1.625	3SS	1.875	0.437		V/CA/SS
QS-681	U	1.750	2.406	1C	1.875	0.437		B/CA/CE
QS-3973	U	1.750	1.625	2SS	1.875	0.437		B/CA/SS
QS-9719	T9	1.875	1.063	3SS	1.875	0.437	316SS	CA/SS
QS-3611	T9T	1.687	1.000	2STE	1.875	0.359	316SS	CA/STE
QS-9003	T9T	1.687	1.000	2SS	2.343	0.375	316SS	CA/SS
QS-9659	T9T	1.687	1.000	2SC	1.875	0.375	316SS	CA/SC
QS-8073V	T8-1	1.875	1.062	28SS	2.832	0.665	316SS	V/CA/SS
QS-8095V	T8B2	1.000	1.000	27SC	2.606	0.960	316SS	V/CA/SC

NOTE: HC - HARD CARBON  
++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.250 (1-1/4") (continued)</b>								
QS-2532AV	Z	2.250	0.875	SEAT UNITIZED WITH SEAL				V/CA
QS-2533AV	Z	2.250	0.875	SEAT UNITIZED WITH SEAL				V/CA
QS-2538A	Z	2.250	0.750	SEAT UNITIZED WITH SEAL				B/CA
<b>1.260 (32MM) SHAFT</b>								
QS-3150V	G	1.811	1.024	1SC	1.890	0.276	316SS	V/SC/SC
<b>1.312 (1-5/16") SHAFT</b>								
QS-2503AN	C	2.062	1.000	3SS	1.875	0.344		N/CA/SS
QS-2610AN	C	2.062	1.500	---	---	---		N/CA/---
QS-2615AN	C	2.062	1.750	2SS	2.000	0.437		N/CA/SS
QS-6680AN	C	2.062	1.062	2SS	2.062	0.375		N/CA/SS
QS-9500AN	C	2.062	2.000	2SS	2.062	0.437		N/CA/SS
QS-6600AN	L-1	2.062	1.675	---	---	---		N/CA/---
QS-8592V CATC	T8-1	1.942	1.125	3TC	1.937	0.437	316SS	V/CA/TC
<b>1.375 (1-3/8") SHAFT</b>								
QS-60-52	C	2.062	1.125	1C	2.250	0.437		B/CA/CE
QS-172	C	2.062	1.125	---	---	---		B/CA/---
QS-177	C	2.062	1.125	1C	2.000	0.437		B/CA/CE
QS-177-E	C	2.062	1.125	1C	2.000	0.437		E/CA/CE
QS-177-HC	C	2.062	1.125	1C	2.000	0.437	HC	B/CA/CE
QS-177-SC-TC	C	2.062	1.125	1TC	2.000	0.437		B/SC/TC
QS-177V	C	2.062	1.125	3C	2.000	0.437		V/CA/CE
QS-177V-HC	C	2.062	1.125	3C	2.000	0.437	HC	V/CA/CE/CE
QS-177V-SC-SC	C	2.062	1.125	1SC	2.000	0.437		V/SC/SC
QS-177V TCTC	C	2.062	1.125	1TC	2.000	0.437		V/TC/TC
QS-210	C	2.062	1.125	1SS	2.000	0.437		B/CA/SS
QS-210-E- CASC	C	2.062	1.125	3SC	2.000	0.437		E/CA/SC
QS-210-E- CASC	C	2.062	1.125	3SC	2.000	0.437		E/CA/SC
QS-210-E-HC TC	C	2.062	1.125	3TC	2.000	0.437	HC	E/CA/TC
QS-210V	C	2.062	1.125	3SS	2.000	0.437	++	V/CA/SS
QS-210V-SC- SC	C	2.062	1.125	3SC	2.000	0.437	++	V/SC/SC
QS-210V-SC- TC	C	2.062	1.125	3TC	2.000	0.437	++	V/SC/TC
QS-210V-TC- TC	C	2.062	1.125	1TC	2.000	0.437		V/TC/TC

NOTE: HC - HARD CARBON  
++ - SLOTTED SEAT



Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.375 (1-3/8") (continued)</b>								
QS-210V CATC	C	2.062	1.125	3TC	2.000	0.437	++	V/CA/TC
QS-210V TCSC	C	2.062	1.125	3SC	2.000	0.437	++	V/TC/SC
QS-467	C	2.062	1.187	2SS	2.125	0.437		B/CA/SS
QS-547	C	2.062	1.125	3SS	2.000	0.437		B/CA/SS
QS-547-HC	C	2.062	1.125	3SC	2.000	0.437	HC	B/CA/SC
QS-547-SC-SC	C	2.062	1.125	3SC	2.000	0.437		B/SC/SC
QS-805	C	2.062	1.125	3C	2.000	0.437		B/CA/SS
QS-919	C	2.062	1.125	1SS	2.000	0.437		B/CA/SS
QS-929	C	2.062	0.900	25CE	2.000	0.500		B/CA/CE
QS-1062V	C	2.062	1.156	3SS	2.125	0.406		V/CA/SS
QS-1667	C	2.062	1.687	1SS	2.000	0.437		B/CA/SS
QS-1667E	C	2.062	1.687	1SS	2.000	0.437		E/CA/SS
QS-1667V	C	2.062	1.687	1SS	2.000	0.437		V/CA/SS
QS-2134	C	2.062	1.687	1C	2.000	0.437		B/CA/CE
QS-2134-HC	C	2.062	1.687	1C	2.000	0.437	HC	B/CA/CE
QS-2134V-HC	C	2.062	1.687	1C	2.000	0.437	HC	V/CA/CE
QS-2647A	C	2.062	1.125	3SS	3.543	0.437		A/CA/SS
QS-2650AN	C	2.062	1.500	51	2.750	PLT		N/CA/PLT
QS-2680A	C	2.062	1.125	3SS	3.543	0.687		B/CA/SS
QS-2707A	C	2.062	1.125	3SS	3.543	0.687		A/CA/SS
QS-2710AN	C	2.062	1.125	---	---	---		N/CA/---
QS-2713AN	C	2.062	1.125	---	---	---		N/CA/---
QS-2720AN	C	2.062	1.187	2SS	2.125	0.375		N/CA/SS
QS-2745A	C	2.062	1.187	1C	1.937	0.375		B/CA/CE
QS-2756A	C	2.062	0.900	---	---	---		B/CA/---
QS-3038	C	2.062	1.125	3SC	2.000	0.437		E/SC/SC
QS-3213V	C	2.062	1.125	3SC	2.000	0.437		V/CA/SC
QS-3230	C	2.062	1.125	1C	2.000	0.437		E/CA/CE
QS-3584V	C	2.062	0.906	3 Special	2.000	0.437		V/CA/SS
QS-3689	C	2.062	1.187	1TC	2.000	0.437		E/CA/TC
QS-4040A	C	2.062	0.900	3SS	2.000	0.692		B/CA/SS
QS-4040AV	C	2.062	0.900	3SS	2.000	0.692		V/CA/SS
QS-4044	C	2.062	1.187	1C	2.125	0.375		B/CA/CE
QS-4057V	C	2.062	1.125	3C	2.125	0.437		V/CA/CE
QS-4238E	C	2.062	1.125	1SS	2.125	0.437		E/CA/SS
QS-4328V	C	2.062	1.125	3C	2.000	0.437		V/CA/CE
QS-4575V	C	2.062	1.500	1SC	2.000	0.437	LC	V/TC/SC
QS-5003N	C	1.933	1.250	2SS	2.125	0.375	316SS	N/CA/SS
QS-5074	C	1.886	0.850	3SS	2.000	0.250		B/CA/SS
QS-5676	C	1.937	0.925	2C	2.187	0.375	316SS	B/CA/CE
QS-5676V	C	1.937	0.925	2C	2.187	0.375	316SS	V/CA/CE
QS-5711	C	1.937	0.925	2SS	2.187	0.375	316SS	B/CA/SS
QS-6180V	C	2.046	0.850	3SS	2.000	0.250		V/CA/SS
QS-6775V	C	2.062	1.125	3C	2.125	0.437		V/CA/CE
QS-7199	C	2.062	1.187	1C	2.125	0.437		B/CA/CE
QS-7919	C	2.062	1.125	3SS	2.000	0.437		E/CA/SS
QS-8160A	C	2.062	1.187	2SS	2.062	0.437		B/CA/SS

NOTE:      HC      - HARD CARBON  
              LC      - LOCK COLLAR  
              PLT     - PLATE SEAT  
              ++      - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.375 (1-3/8") (continued)</b>								
QS-70081	C	2.062	1.125	1SS	2.832	0.437		B/CA/SS
QS-2704V	CB	2.062	1.437	3TC	1.875	0.437	++	V/CA/TC
QS-3587	CB	2.062	1.437	3TC	1.875	0.437	++	B/CA/TC
QS-4119V	CB	2.062	1.437	3SS	1.875	0.437	++	V/CA/SS
QS-7695V	CB	2.062	1.437	3SS	1.875	0.437		V/CA/SS
QS-7696E	CB	2.062	1.437	1C	1.875	0.437		E/CA/CE
QS-7697	CB	2.062	1.437	3C	1.875	0.437		B/CA/CE
QS-7697V	CB	2.062	1.437	3TC	1.875	0.437		V/CA/TC
QS-7795	CB	2.062	1.437	3SS	1.875	0.437		B/CA/SS
FA-4268	CB	2.062	1.437	---	---	---		B/CA/---
QS-186	D	2.187	1.125	1SS	2.000	0.437		B/CA/SS
QS-186-E-CASC	D	2.187	1.125	1SC	2.000	0.437		E/CA/SC
QS-186V	D	2.187	1.125	3SS	2.000	0.437		V/CA/SS
QS-186V CATC	D	2.187	1.125	3TC	2.000	0.437		V/CA/TC
QS-376	D	2.187	1.125	---	---	---		B/CA/---
QS-404	D	2.187	1.093	25C	2.000	0.500		B/CA/CE
QS-491	D	2.187	1.125	1C	2.000	0.437		B/CA/CE
QS-491-E	D	2.187	1.125	1C	2.000	0.437		E/CA/CE
QS-491-HC	D	2.187	1.125	1C	2.000	0.437	HC	B/CA/CE
QS-491V-3	D	2.187	1.125	3C	2.000	0.437		V/CA/CE
QS-491V-1	D	2.187	1.125	1C	2.000	0.437		V/CA/CE
QS-491V-HC	D	2.187	1.125	1C	2.000	0.437	HC	V/CA/CE
QS-806	D	2.187	1.125	3SS	2.000	0.437		B/CA/CE
QS-807	D	2.187	1.125	3SS	2.000	0.437		B/CA/SS
QS-1132	D	2.187	1.093	1C	2.000	0.437		B/CA/CE
QS-2045	D	2.187	1.125	1C	2.000	0.437		B/CA/CE
QS-2046	D	2.187	1.125	1SS	2.000	0.437		B/CA/SS
QS-2047	D	2.187	1.125	3C	2.000	0.437		B/CA/CE
QS-2047V	D	2.187	1.125	3C	2.000	0.437		V/CA/CE
QS-2048	D	2.187	1.125	3SS	2.000	0.437		B/CA/SS
QS-2772AV	D	2.187	0.800	3SS	2.687	0.380		V/CA/SS
QS-3216V	D	2.250	1.125	3 Special	2.000	0.437	316SS	V/CA/CE
QS-3932	D	2.250	1.125	1TC	2.000	0.437		B/CA/TC
QS-4117	D	2.187	1.125	1TC	2.000	0.437		B/CA/TC
QS-4123V	D	2.187	1.125	3SS	2.000	0.437		V/CA/SS
QS-4194V	D	2.187	1.125	1SC	2.000	0.437		V/SC/SC
QS-6048V	D	2.250	1.006	3SS	2.000	0.218		V/CA/SS
QS-7803	D	2.250	1.125	1TC	2.000	0.437		E/CA/TC
QS-186-A	D	2.187	1.125	---	---	---		B/CA/---
QS-376E-E	D	2.187	1.125	---	---	---		E/CA/---
QS-3974	DB	2.250	1.437	1C	1.875	0.437		B/CA/CE
QS-3974V	DB	2.250	1.437	1C	1.875	0.437		V/CA/CE
QS-4200	DB	2.250	1.437	1TC	1.875	0.437		B/CA/TC

NOTE: HC - HARD CARBON  
++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.375 (1-3/8") (continued)</b>								
QS-7798	DB	2.250	1.437	1SS	1.875	0.437		B/CA/SS
QS-257	E	1.875	1.187	3SS	2.000	0.437		B/CA/SS
QS-257E-SC-SC	E	1.875	1.187	1SC	2.000	0.437		E/SC/SC
QS-257V	E	1.875	1.187	3SS	2.000	0.437		V/CA/SS
QS-354	E	1.875	1.687	1C	2.000	0.437		B/CA/CE
QS-354-E-HC SC	E	1.875	1.687	1SC	2.000	0.437	HC	E/CA/SC
QS-354-HC	E	1.875	1.687	1SS	2.000	0.437	HC	B/CA/CE
QS-354V	E	1.875	1.687	3C	2.000	0.437		V/CA/CE
QS-354V-HC	E	1.875	1.687	3C	2.000	0.437	HC	V/CA/CE
QS-357E-HC	E	1.875	1.687	1C	2.000	0.437	HC	E/CA/CE
QS-4452V	E	1.875	1.625	3TC	2.125	0.437		V/CA/TC
QS-677	E	1.875	1.687	1SS	2.000	0.437		B/CA/SS
QS-677-TC-TC	E	1.875	1.687	1TC	2.000	0.437		B/TC/TC
QS-677V	E	1.875	1.687	3SS	2.000	0.437		V/CA/SS
QS-808	E	1.875	1.687	3C	2.000	0.437		B/CA/CE
QS-809	E	1.875	1.687	3SS	2.000	0.437		B/CA/SS
QS-864	E	1.875	2.000	3C	2.000	0.437		B/CA/CE
QS-865	E	1.875	2.000	3SS	2.000	0.437		B/CA/SS
QS-865-HC	E	1.875	1.687	3SS	2.000	0.437	HC	B/CA/SS
QS-865-CASC	E	1.875	1.687	3SC	2.000	0.437		B/CA/SC
QS-865V-SC-SC	E	1.875	1.687	3SC	2.000	0.437		V/SC/SC
QS-865V-SC-TC	E	1.875	1.687	3TC	2.000	0.437		V/SC/TC
QS-865V-TC- SC	E	1.875	1.687	3SC	2.000	0.437		V/TC/SC
QS-2049	E	1.875	1.687	1C	2.000	0.437		B/CA/CE
QS-2050	E	1.875	1.687	1SS	2.000	0.437		B/CA/SS
QS-2104	E	1.875	1.687	---	---	---		B/CA/---
QS-2657A	E	1.875	1.187	3SS	2.000	0.437		B/CA/SS
QS-2775A	E	1.875	1.687	2SS	2.000	0.437		B/CA/SS
QS-3087V	E	1.875	1.687	3TC	2.125	0.437		V/CA/TC
QS-3205V	E	1.875	2.031	3SC	2.000	0.437		V/CA/SC
QS-3218	E	1.875	2.031	3C	2.000	0.437	LC/++	B/CA/CE
QS-3783V	E	1.875	1.625	3SC	2.125	0.437		V/CA/SC
QS-3787V	E	1.875	1.687	3C	2.125	0.437		V/CA/CE
QS-3792V	E	1.687	1.625	3C	2.125	0.437		V/CA/CE
QS-3901V	E	1.875	2.031	3C	2.000	0.437		V/CE/CE
QS-3925V	E	1.875	1.687	3C	2.125	0.437		V/CA/CE
QS-3984V	E	1.875	1.687	3SC	2.125	0.437		V/CA/SC
QS-4119AN	E	1.875	2.375	52	---	PLT		N/CA/---
QS-4277V	E	1.875	2.031	3SC	2.000	0.437	LC	V/SC/SC
QS-4384AF	E	1.875	2.031	3SC	2.000	0.437		AF/SC/SC
QS-4433AF	E	2.000	2.031	3SC	2.000	0.437		AF/TC/SC
QS-4566	E	1.875	2.031	3C	2.000	0.437		E/CA/CE
QS-4574V	E	1.875	2.031	3TC	2.000	0.437		V/CA/TC
QS-6830A	E	1.875	1.687	1C	2.000	0.375		B/CA/CE
QS-9957A	E	1.875	1.187	3SS	2.000	0.437		B/CA/SS
QS-9957AV	E	1.875	1.187	3SS	2.000	0.437		V/CA/SS

NOTE:      HC      - HARD CARBON  
              LC      - LOCK COLLAR  
              PLT     - PLATE SEAT  
              ++      - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.375 (1-3/8") (continued)</b>								
QS-354E	E	1.875	1.687	---	---	---		B/CA/---
QS-2104V	E	1.875	1.687	---	---	---		V/CA/---
QS-4087V	E	1.875	2.031	---	---	---		V/CA/---
QS-4163E	E	1.875	2.031	---	---	---		E/CA/---
QS-3954	EB	1.875	2.000	1SS	1.875	0.437		B/CA/SS
QS-7702	EB	1.875	2.000	3C	1.875	0.437		B/CA/CE
QS-3991	EB	1.875	2.000	3SS	1.875	0.437		B/CA/SS
QS-3991V	EB	1.875	2.000	3CE	1.875	0.437		V/CA/CE
QS-3991V	EB	1.875	2.000	3SC	1.875	0.437		V/CA/SC
QS-4170	EB	1.875	2.000	3SS	1.875	0.437	++	B/CA/SS
QS-4145	EB	1.875	2.000	3TC	1.875	0.437		B/CA/TC
QS-3799E	EB	1.875	2.000	3TC	1.875	0.437		E/CA/TC
QS-4420V	EB	1.875	2.000	3SS	1.875	0.437		V/CA/SS
QS-3769V	EB	1.875	2.000	3TC	1.875	0.437		V/CA/TC
QS-3014	G	1.929	1.024	1TC	2.000	0.437	316SS	B/SC/TC
QS-3015V	G	1.929	1.024	25SC	2.000	0.437	316SS	V/SC/SC
QS-3086	G	1.929	1.024	3SC	2.000	0.437	316SS	E/CA/SC
QS-7971	G	1.929	1.024	1C	2.000	0.437		B/CA/CE
QS-291	J	2.125	1.187	1C	2.125	0.375		B/CA/CE
QS-209	K	2.062	1.625	---	---	---		B/CA/---
QS-495	K	2.062	1.625	1C	2.000	0.437		B/CA/CE
QS-495	K	2.062	1.625	1C	2.000	0.437		E/CA/CE
QS-540	K	2.062	1.625	1SS	2.000	0.437		B/CA/SS
QS-2640AN	K	2.062	1.375	3SS	---	PLT		N/CA/PLT/S S
QS-2645A	K	2.062	2.000	51	---	PLT		B/CA/PLT
QS-2665A	K	2.062	2.250	---	---	---		B/CA/---
QS-2695A	K	2.062	1.625	1C/3SS	2.000/2.125	0.375		B/CA/CE/CA /SS
QS-2730AN	K	2.062	2.000	---	---	---		N/CA/---
QS-2760AN	K	2.062	1.950	---	---	---		N/CA/---
QS-3117V	K	2.062	1.625	1C	2.000	0.437		V/CA/CE
QS-3196V	K	2.062	1.625	3C	2.000	0.437		V/CA/CE
QS-3935A	K	2.062	2.500	1C	2.000	0.437		B/CA/CE
QS-4851A	K	2.062	2.000	3SS	2.250	0.500		B/CA/SS
QS-2760AN	L-1	2.000	1.750	---	---	---		N/CA/---
QS-2725AN	L-1	2.062	0.900	---	---	---		N/CA/---
QS-8155AN	L-1	2.000	1.675	---	---	---		N/CA/---
QS-2670AN	L-2	2.000	2.500	2BR	2.406	0.437		N/CA/BR
QS-2675AN	L-2	1.875	1.125	2BR	2.031	0.406		N/CA/BR

NOTE: PLT - PLATE SEAT  
++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.375 (1-3/8") (continued)</b>								
QS-4793A	L-2	1.938	2.250	25CA	2.143	0.733		B/SS/CA
QS-3854	Q	2.515	0.625	25BR	2.000	0.281		B/CA/BR
QS-6317	Q	3.241	0.908	9BR	2.000	0.281		V/CA/SS
QS-178	R	2.187	2.187	1C	2.000	0.437		B/CA/CE
QS-11451-2	SP	1.875	---	2SS	2.125	---		B/CA/SS
QS-690	T	1.875	2.437	1C	2.000	0.437		B/CA/CE
QS-725	T	1.875	2.437	1C	2.000	0.437		B/CA/CE
QS-725V	T	1.875	2.437	1C	2.000	0.437		V/CA/CE
QS-726	T	1.875	2.437	1SS	2.000	0.437		B/CA/SS
QS-2635AN	T	1.875	1.687	---	---	---		N/CA/---
QS-3541	T	1.875	2.437	3TC	2.000	0.437	++	V/TC/TC
QS-4456	T	1.875	2.437	1C	2.000	0.437	++	V/CA/CE
QS-4515	T	1.875	2.687	3C	2.000	0.437	++	V/CA/CE
QS-4206	T	1.875	2.812	3C	2.000	0.437	++	V/CA/CE
QS-561	U	1.875	2.125	2SS	2.000	0.437		B/CA/SS
QS-561V	U	1.875	2.125	3SS	2.000	0.437		V/CA/SS
QS-1104	V	SPEC*	2.812	25C	2.140	0.437		B/CA/CE
QS-3198	V	1.937	2.000	3C	2.140	0.406		B/CA/CE
QS-9016	T9	2.000	1.125	27 Special	2.656	0.625	316SS	Special
QS-9317	T9	2.000	1.125	2C	2.000	0.437	316SS	E/CA/CE
QS-7103	T9T	1.937	1.062	27C	2.375	1.000	316SS	CA/CE
QS-9150	T9T	1.937	1.062	3SS	2.125	0.437	316SS	CA/SS
QS-9021	T9T	1.937	1.062	3C	2.000	0.437	316SS	CA/CE
QS-9706	T9T	1.937	1.062	3SS	2.000	0.437	316SS	CA/SS
FA-9328	T9T	1.937	1.062	---	---	---	316SS	CA/---
FA-9341	T9T	1.937	1.062	---	---	---	316SS	CA/---
QS-8135	T8-1T	1.937	1.062	3C	2.000	0.437	316SS	E/CA/CE
QS-8048	T8-1T	1.937	1.062	3C	2.125	0.437	316SS	V/CA/CE
QS-8110	T8B2	2.250	1.115	3C	2.000	0.437	316SS	V/CA/CE
QS-4134	T8-1 Special	3.500	0.701	Special	1.875	0.312	316SS	B/CA/SS
<b>1.406 SHAFT</b>								
QS-4685AN	C	2.062	1.187	---	---	---		N/CA/---

NOTE: ++ - SLOTTED SEAT



Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.437 (1-7/16") SHAFT</b>								
QS-2156	C	2.125	1.125	3SS	2.250	0.625		B/CA/SS
QS-2156V	C	2.125	1.125	3SS	2.250	0.625		V/CA/SS
QS-2785A	C	2.125	1.000	2SS	2.187	0.312		B/CA/SS
QS-2785AV	C	2.125	1.000	2SS	2.187	0.312		V/CA/SS
QS-7105	C	2.125	1.250	3SS	2.250	0.375		B/CA/SS
QS-7105V	C	2.125	1.250	3SS	2.250	0.375		V/CA/SS
QS-7367V	C	2.125	1.125	Special	2.718	0.654		V/CA/SS
QS-8310A	C	2.125	1.125	2SS	2.187	0.500		B/CA/SS
QS-8310AV	C	2.125	1.125	2SS	2.187	0.500		V/CA/SS
QS-4455V	D	2.250	1.093	3SS	2.062	0.437		V/CA/SS
QS-4545A	D	2.312	1.000	1C	2.062	0.437		B/CA/CE
QS-4925A	D	2.312	1.000	3SS	3.875	0.437		B/CA/SS
QS-4930A	D	2.312	1.000	1C	2.250	0.437		B/CA/CE
QS-4931A	D	2.312	1.250	3SS	2.250	0.437		B/CA/SS
QS-334	E	1.937	1.625	2SS	2.062	0.437		B/CA/SS
QS-705	E	1.937	1.688	3C	2.062	0.437		B/CA/CE
QS-943	E	2.110	1.516	3SS	2.312	0.360		N/CA/SS
QS-1634V	E	1.937	1.250	3SS	2.250	0.375		V/CA/SS
QS-1635	E	1.937	1.250	3SS	2.250	0.375		B/CA/SS
QS-1643	E	1.937	1.250	3SS	2.250	0.375		B/CA/SS
QS-2234	E	1.937	1.688	3SS	2.062	0.437		B/CA/SS
QS-2234V	E	1.937	1.688	3SS	2.062	0.437		V/CA/SS
QS-2790AN	E	1.937	1.516	51	2.750	PLT		N/CA/PLT
QS-2810AN	E	1.937	1.250	---	---	---		N/CA/---
QS-2811AN	E	1.937	1.516	52	---	PLT		N/CA/PLT
QS-3080	E	2.110	1.516	3SS	2.312	0.360		B/BR/SS
QS-3848	E	2.110	1.516	3SS	2.312	0.360		B/CA/SS
QS-4067V	E	1.937	1.688	3SS	2.125	0.437		V/CA/SS
QS-4140V	E	1.937	1.244	3SC	2.375	0.531		V/CA/SC
QS-4189	E	1.937	1.219	3SS	2.250	0.375		B/CA/SS
QS-4189V	E	1.937	1.219	3SS	2.250	0.375		V/CA/SS
QS-6075AN	E	1.937	1.250	2SS	2.250	0.312		N/CA/SS
QS-6338V	E	2.110	1.516	3SS	2.312	0.360		V/CA/SS
QS-6340	E	1.937	1.688	3SS	2.171	0.437		B/CA/SS
QS-6342V	E	1.937	1.688	3SS	2.171	0.437		V/CA/SS
QS-6344N	E	2.110	1.516	3SS	2.312	0.360		N/CA/SS
QS-6055V	E	1.937	1.688	28SS	2.718	0.654		V/CA/SS
QS-7930AN	E	1.937	1.516	51	---	PLT		N/CA/PLT
QS-862	K	2.125	1.750	---	---	---		B/CA/---
QS-2284AN	K	2.125	2.125	3SS	2.188	0.375		N/CA/SS
QS-2284AV	K	2.125	2.125	3SS	2.188	0.375		V/CA/SS
QS-6890A	K	2.125	1.750	2SS	2.375	0.437		B/CA/SS
QS-8620AN	K	2.125	1.750	---	---	---		N/CA/---
QS-2780AN	L-2	2.062	2.250	---	---	---		N/CA/---

NOTE: PLT - PLATE SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.437 (1-7/16") (continued)</b>								
QS-4400V	R	2.250	1.625	3SS	2.062	0.437		V/CA/SS
QS-1633N	T9	1.937	2.125	3SS	2.187	0.375	316SS	N/CA/SS
QS-9227	T9	2.062	1.125	2SS	2.312	0.421	316SS	CA/SS
QS-9302	T9	2.062	1.125	3SS	2.250	0.625	316SS	CA/SS
QS-9304	T9	2.062	1.125	27SS	2.687	0.625	316SS	CA/SS
QS-9307	T9	2.062	1.125	2STE	2.312	0.421	316SS	CA/STE
QS-9330	T9	2.062	1.125	Special	2.484	0.675	316SS	CA/SS
QS-9331	T9	2.062	1.125	28	2.687	0.625	316SS	Special
QS-9707	T9	2.062	1.125	2 Special	2.312	0.421	316SS	Special
QS-9717	T9	2.062	1.125	27	2.687	0.625	316SS	Special
QS-9721	T9	2.062	1.125	27SC	2.687	0.625	316SS	CA/SC
QS-6056	T8-1	2.062	1.125	27SS Special	2.718	0.656	316SS	V/CA/SS
QS-8044	T8-1	2.062	1.125	5TC	2.125	0.437	316SS	V/CA/TC
QS-8131	T8B Special	2.125	1.125	27 Special	2.687	0.625	316SS	V/CA/SS
QS-8111	T8B2	2.187	1.000	3SS	2.125	0.312	316SS	B/CA/SS
QS-8079	T8B5	2.125	1.500	3	1.937	0.437	316SS	Special
<b>1.475 SHAFT</b>								
QS-5205AN	D	2.312	2.375	---	---	---		N/CA/---
<b>1.490 SHAFT</b>								
QS-2820AN	C	2.187	3.000	2BR	2.250	0.437		N/CA/BR
<b>1.500 (1-1/2") SHAFT</b>								
QS-111	C	2.187	1.687	3SS	2.125	0.437		B/CA/SS
QS-192N	C	2.187	1.437	3SS	2.125	0.437		N/CA/SS
QS-247	C	2.187	1.125	1SS	2.156	0.437	*	B/CA/SS
QS-320	C	2.187	1.125	1C	2.250	0.437		B/CA/CE
QS-347	C	2.187	1.125	1C	2.125	0.437	*	B/CA/CE
QS-347-HC	C	2.187	1.125	1C	2.125	0.437	HC/*	B/CA/CE
QS-347V	C	2.187	1.125	1C	2.125	0.437	*	V/CA/CE
QS-378	C	2.187	1.125	1SS	2.125	0.437	*	B/CA/SS
QS-378V	C	2.187	1.125	1SS	2.125	0.437	*	V/CA/SS
QS-553	C	2.187	1.125	3SS	2.125	0.437		B/CA/SS
QS-553-E	C	2.187	1.125	3SS	2.125	0.437		E/CA/SS
QS-659	C	2.187	1.125	1SS	2.125	0.437		B/CA/SS
QS-659-CATC	C	2.187	1.125	1TC	2.125	0.437		B/CA/TC
QS-659V	C	2.187	1.125	3SS	2.125	0.437		V/CA/SS
QS-659V-HC	C	2.187	1.125	3SS	2.125	0.437	HC	V/CA/SS
QS-659V-TC-TC	C	2.187	1.125	1TC	2.125	0.437		V/TC/TC
QS-682	C	2.187	1.125	1C	2.156	0.437	*	B/CA/CE

NOTE: HC - HARD CARBON  
\* - TAPERED SPRING

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.500 (1-1/2") (continued)</b>								
QS-758	C	2.187	1.125	1C	2.125	0.437		B/CA/CE
QS-758-E	C	2.187	1.125	3C	2.125	0.437		E/CA/CE
QS-758-HC	C	2.187	1.125	1C	2.125	0.437	HC	B/CA/CE
QS-758-SC-SC	C	2.187	1.125	1SC	2.125	0.437		B/SC/SC
QS-758-CASC	C	2.187	1.125	1SC	2.125	0.437		B/CA/SC
QS-785-SC-TC	C	2.187	1.125	1TC	2.125	0.437		B/SC/TC
QS-758V	C	2.187	1.125	3C	2.125	0.437		V/CA/CE
QS-758V-HC	C	2.187	1.125	1C	2.125	0.437	HC	V/CA/CE
QS-758V-SC-SC	C	2.187	1.125	1SC	2.125	0.437		V/SC/SC
QS-758V-CASC	C	2.187	1.125	1SC	2.125	0.437		V/CA/SC
QS-758V-TC-SC	C	2.187	1.125	1SC	2.125	0.437		V/TC/SC
QS-816	C	2.187	1.125	3C	2.125	0.437	++	B/CA/CE
QS-926	C	2.187	1.125	3C	2.312	0.437		B/CA/CE
QS-1017AN	C	2.187	1.687	52	3.062	PLT		N/CA/PLT
QS-1019AN	C	2.187	1.125	51	3.500	PLT		N/CA/PLT
QS-1110	C	2.187	1.687	3SS	2.125	0.437		B/CA/SS
QS-1110V	C	2.187	1.687	3SS	2.125	0.437		V/CA/SS
QS-1144V	C	2.187	1.125	3SS	2.125	0.437		V/CA/SS
QS-1189	C	2.187	1.125	1C	2.250	0.437		B/CA/CE
QS-1921AN	C	2.187	1.687	51	2.875	PLT		N/CA/PLT
QS-19211AN	C	2.187	1.687	---	---	---		N/CA/---
QS-2105	C	2.187	1.125	---	---	---		B/CA/---
QS-2120AN	C	2.187	1.687	2BR	2.250	0.562		N/CA/BR
QS-2209	C	2.187	1.125	1TC	2.125	0.437		B/TC/TC
QS-2217	C	2.187	1.125	3TC	2.125	0.437		B/TC/TC
QS-2221	C	2.187	1.687	3SS	2.125	0.437		E/CA/SS
QS-2223V	C	2.187	1.125	3TC	2.125	0.437		V/CA/TC
QS-2223-CASC	C	2.187	1.125	3SC	2.125	0.437		V/CA/SC
QS-2232 HC	C	2.187	1.125	1SS	2.125	0.437	HC	B/CA/SS
QS-2705	C	2.187	1.125	1C	2.125	0.437		B/CA/CE
QS-2714V	C	2.187	1.687	3C	2.125	0.437		V/CA/CE
QS-2845A	C	2.187	1.125	2SS	2.125	0.406		B/CA/SS
QS-2870AN	C	2.187	1.687	51	3.500	PLT		N/CA/PLT
QS-2890AN	C	2.187	1.687	51	2.562	PLT		N/CA/PLT
QS-2895A	C	2.187	1.000	1C	2.156	0.437		B/CA/CE
QS-2909A	C	2.187	0.875	3SS	2.125	0.312		B/CA/SS
QS-2910AN	C	2.187	1.125	2BR	2.250	0.375		N/CA/BR
QS-2920AN	C	2.187	1.687	---	---	---		N/CA/---
QS-2925AN	C	2.187	2.125	---	---	---		N/CA/---
QS-2935AN	C	2.187	1.125	---	---	---		N/CA/---
QS-3101	C	2.187	1.125	3SC	2.125	0.437		B/SC/SC
QS-3141V HC	C	2.187	1.125	1SS	2.125	0.437	HC	V/CA/SS
QS-3160E HC	C	2.187	1.125	3TC	2.125	0.437	HC	E/CA/TC
QS-3165V HC	C	2.187	1.125	1C	2.125	0.437	HC	V/CA/CE
QS-3166	C	2.187	1.125	1SC	2.125	0.437	316SS	B/TC/SC
QS-3174	C	2.187	1.125	3SS	2.125	0.437		B/CA/SS

NOTE: HC - HARD CARBON  
PLT - PLATE SEAT  
++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.500 (1-1/2") (continued)</b>								
QS-3224E	C	2.187	1.125	1TC	2.125	0.437		E/CA/TC
QS-3248E	C	2.187	1.125	3TC	2.125	0.437		E/CA/TC
QS-3249N	C	2.312	1.093	3SC	2.125	0.437	*/++	N/SC/SC
QS-3252V	C	2.187	1.125	1SC	2.125	0.437	316SS	V/SC/SC
QS-3704V	C	2.187	1.125	3TC	2.125	0.437	316SS	V/CA/TC
QS-3736V	C	2.187	1.125	3SC	2.125	0.437		V/SC/SC
QS-3813V	C	2.312	1.093	1C	2.125	0.437	*	V/CA/CE
QS-3821A	C	2.187	1.125	1SS	2.125	0.437		B/CA/SS
QS-3943V	C	2.187	0.906	3 Special	2.125	0.437		V/CA/SS
QS-3979	C	2.187	1.125	Special	2.740	0.875		B/CA/SS
QS-4171 HC	C	2.187	1.125	1C	2.125	0.437	HC	E/CA/CE
QS-4212V HC	C	2.187	1.125	3C	2.125	0.437	HC	V/CA/CE
QS-4438	C	2.187	1.125	3TC	2.125	0.437	++	E/CA/TC
QS-4447V	C	2.187	1.125	3TC	2.125	0.437		V/SC/TC
QS-4482V	C	2.312	1.093	1SS	2.125	0.437		V/CA/SS
QS-5670AN	C	2.187	1.687	52	---	PLT		N/CA/PLT
QS-5720	C	2.062	1.125	2SS	2.125	0.423		B/CA/SS
QS-5727V	C	2.062	1.125	3SC	2.125	0.437	316SS	V/SC/SC
QS-6170AN	C	2.187	2.000	51	3.610	PLT		N/CA/PLT
QS-7131	C	2.187	1.125	3TC	2.500	5.000		B/TC/TC
QS-7166	C	2.187	1.687	3C	2.125	0.437		B/CA/CE
QS-7201	C	2.187	1.687	1C	2.125	0.437		B/CA/CE
QS-7409V	C	2.187	1.125	1C	2.125	0.437	316SS	V/CA/CE
QS-7413E	C	2.187	1.125	1SS	2.125	0.437		E/CA/SS
QS-7632E HC	C	2.187	1.125	1TC	2.125	0.437	HC	E/CA/TC
QS-7674E HC	C	2.187	1.125	3SS	2.125	0.437	HC	B/CA/SS
QS-7694	C	2.187	1.125	1C	2.156	0.437		B/CA/CE
QS-7747V HC	C	2.187	1.125	1TC	2.125	0.437	HC	V/CA/TC
QS-7792V	C	2.187	1.125	1TC	2.125	0.437		V/SC/TC
QS-7937E	C	2.187	1.125	1SC	2.125	0.437		V/SC/SC
QS-7953E HC	C	2.187	1.125	1C	2.125	0.437	HC	E/CA/CE
QS-7953 CASC	C	2.187	1.125	1SC	2.125	0.437		E/CA/SC
QS-7975V	C	2.187	1.125	3SS	2.125	0.437	++	V/CA/SS
QS-9918AN	C	2.187	2.000	---	---	---		N/CA/---
QS-14122AN	C	2.187	1.687	52	---	PLT		N/CA/PLT
QS-2755E-HC	C	2.187	1.125	---	---	---	HC	E/CA/---
QS-10043V-E	C	2.187	1.125	---	---	---		V/CA/---
QS-3880	CB	2.187	1.437	3C	2.000	0.437		B/CA/CE
QS-2851AMP	SC	2.062	0.700	3SC	2.125	0.312		B/CA/SC
QS-283	D	2.312	1.125	1C	2.156	0.437		B/CA/CE
QS-371	D	2.312	1.125	1SS	1.125	0.437		B/CA/SS
QS-371-E	D	2.312	1.125	1SS	2.125	0.437		E/CA/SS
QS-371V	D	2.312	1.125	1SS	2.125	0.437		V/CA/SS

NOTE:      HC      - HARD CARBON  
              PLT      - PLATE SEAT  
              ++      - SLOTTED SEAT  
              \*      - TAPERED SPRING

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.500 (1-1/2") (continued)</b>								
QS-371V-SC-SC	D	2.312	1.125	3SC	2.125	0.437		V/SC/SC
QS-382	D	2.312	1.125	1C	1.125	0.437		B/CA/CE
QS-382-HC	D	2.312	1.125	1C	2.125	0.437	HC	B/CA/CE
QS-534	D	2.312	1.125	3SS	1.125	0.437		B/CA/SS
QS-599	D	2.312	1.000	3SS	2.187	0.437		B/CA/SS
QS-817	D	2.312	1.125	3C	2.125	0.437		B/CA/CE
QS-939	D	2.312	1.125	---	---	---		B/CA/---
QS-1028A	D	2.312	1.125	1SC	2.375	SP		B/CA/SC
QS-2051	D	2.312	1.125	1C	2.125	0.437		B/CA/CE
QS-2052	D	2.312	1.125	1SS	2.125	0.437		B/CA/SS
QS-2053	D	2.312	1.125	3C	2.125	0.437		B/CA/CE
QS-2054	D	2.312	1.125	3SS	2.125	0.437		B/CA/SS
QS-2127	D	2.312	1.125	3SS	2.125	0.437		B/CA/SS
QS-2940A	D	2.312	1.125	---	---	---		B/CA/---
QS-3136	D	2.312	1.093	2SS	2.125	0.500		B/CA/SS
QS-3642V	D	2.312	1.125	1SC	2.125	0.437		V/SC/SC
QS-4363	D	2.375	1.000	3SS	2.187	0.437		B/CA/SS
QS-4365AF	D	2.312	1.125	3TC	2.125	0.437		AF/SC/TC
QS-4546	D	2.375	1.125	3SS	2.125	0.437		B/CA/SS
QS-7079V	D	2.375	1.125	28TC	2.375	0.618		V/TC/TC
QS-7874	D	2.375	1.119	3SC	2.125	0.443		B/SC/SC
QS-200AA	D	2.312	1.125	---	---	---		B/CA/---
QS-2752N-1	D	2.375	1.619	---	---	---		N/SC/---
QS-2754N-2	D	2.375	1.619	---	---	---		N/CA/---
QS-2706N	D Special	2.375	1.689	3SC	2.110	0.437		N/SC/SC
QS-4423AF	D Special	2.375	1.094	3SC	2.125	0.437		AF/SC/SC
QS-224N	E	2.000	1.688	3SS	2.125	0.437		N/CA/SS
QS-258	E	2.000	1.688	3SS	2.125	0.437		B/CA/SS
QS-258-TC-SC	E	2.000	1.688	3SC	2.125	0.437		B/TC/SC
QS-258V-HC	E	2.000	1.688	3SS	2.125	0.437	HC	V/CA/SS
QS-259	E	2.000	1.187	3SS	2.125	0.437		B/CA/SS
QS-259-E-CASC	E	2.000	1.187	1SC	2.125	0.437		E/CA/SC
QS-305	E	2.000	1.688	1C	2.125	0.437		B/CA/CE
QS-305-E	E	2.000	1.688	1C	2.125	0.437		E/CA/CE
QS-305-E-HC	E	2.000	1.688	1C	2.125	0.437	HC	E/CA/CE
QS-305-HC	E	2.000	1.688	1C	2.125	0.437	HC	B/CA/CE
QS-305-SC-SC	E	2.000	1.688	1SC	2.125	0.437		B/SC/SC
QS-305V	E	2.000	1.688	3C	2.125	0.437		V/CA/CE
QS-305V-HC	E	2.000	1.688	3C	2.125	0.437	HC	V/CA/CE
QS-305V	E	2.000	1.688	1C	2.125	0.437		V/CA/CE
QS-305V-SC-SC	E	2.000	1.688	1SC	2.125	0.437		V/SC/SC
QS-305V-CATC	E	2.000	1.688	1TC	2.125	0.437		V/CA/TC
QS-305V TCTC	E	2.000	1.688	1TC	2.125	0.437		V/TC/TC
QS-314	E	2.000	1.688	3C	2.000	0.437		B/CA/CE

NOTE: HC - HARD CARBON



Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.500 (1-1/2") (continued)</b>								
QS-316	E	2.000	1.688	3SS	2.000	0.437		B/CA/SS
QS-374	E	2.000	1.688	1SS	2.125	0.437		B/CA/SS
QS-374-HC	E	2.000	1.688	1SS	2.125	0.437	HC	B/CA/SS
QS-374V	E	2.000	1.688	3SS	2.125	0.437		V/CA/SS
QS-395	E	2.000	1.688	3C	2.125	0.437		B/CA/CE
QS-395-E	E	2.000	1.688	3C	2.125	0.437		E/CA/CE
QS-395V-CASC	E	2.000	1.688	3SC	2.125	0.437		V/CA/SC
QS-515	E	2.000	1.688	3C	2.250	0.437		B/CA/CE
QS-515V	E	2.000	1.688	3C	2.250	0.437		V/CA/CE
QS-620	E	2.000	2.062	3C	2.312	0.437		B/CA/CE
QS-620V	E	2.000	2.062	3C	2.312	0.437		V/CA/CE
QS-629	E	2.000	2.062	3SS	2.312	0.437		B/CA/SS
QS-899	E	2.000	1.562	3C	2.125	0.437		B/CA/CE
QS-947	E	2.000	2.062	3C	2.312	0.437		B/CA/CE
QS-950	E	2.000	2.062	3SS	2.312	0.437		B/CA/SS
QS-1190	E	2.000	1.688	1C	2.125	0.437		B/CA/CE
QS-1191	E	2.000	1.688	1SS	2.125	0.437		B/CA/SS
QS-1192	E	2.000	1.688	3SS	2.125	0.437		B/CA/SS
QS-1640	E	2.000	1.688	3TC	2.125	0.437		B/CA/TC
QS-1641	E	2.000	1.688	3C	2.125	0.437		B/CA/CE
QS-1642	E	2.000	1.688	3SS	2.125	0.437		B/CA/SS
QS-1643	E	2.000	1.688	3TC	2.125	0.437		B/CA/TC
QS-1644	E	2.000	1.688	3C	2.125	0.437		B/CA/CE
QS-1645	E	2.000	1.688	3SS	2.125	0.437		B/CA/SS
QS-1646	E	2.000	1.688	3TC	2.125	0.437		V/CA/TC
QS-1647	E	2.000	1.688	3C	2.312	0.437		B/CA/CE
QS-1648	E	2.000	1.688	3SS	2.312	0.437		B/CA/SS
QS-1649	E	2.000	1.688	3C	2.312	0.437		B/CA/CE
QS-1650	E	2.000	1.688	3SS	2.312	0.437		B/CA/SS
QS-1651	E	2.000	1.688	3C	2.312	0.437		V/CA/CE
QS-1652	E	2.000	1.688	3SS	2.312	0.437		V/CA/SS
QS-1671	E	2.000	1.688	3TC	2.312	0.437		B/CA/TC
QS-1673	E	2.000	1.688	3TC	2.312	0.437		B/CA/TC
QS-1690	E	2.000	2.062	3C	2.312	0.437		B/CA/CE
QS-1691	E	2.000	2.062	3SS	2.312	0.437		V/CA/SS
QS-1692	E	2.000	2.062	3TC	2.312	0.437		V/CA/TC
QS-2106	E	2.000	1.688	---	---	---		B/CA/---
QS-2117	E	2.000	1.688	1C	2.250	0.437		B/CA/CE
QS-2137	E	2.000	1.688	1SS	2.156	0.437		B/CA/SS
QS-2837A	E	2.000	1.187	3SC	2.125	0.375		B/CA/SC
QS-4034	E	2.000	1.688	3TC	2.312	0.437		B/CA/TC
QS-4167E HC	E	2.000	1.688	3TC	2.125	0.437	HC	E/CA/TC
QS-4201V	E	2.000	1.688	3TC	2.500	0.500		V/CA/TC
QS-4354	E	2.000	1.688	1TC	2.125	0.437		B/TC/TC
QS-4368E HC	E	2.000	1.688	5TC	2.125	0.437	HC	E/CA/TC
QS-4407	E	2.000	1.688	1SC	2.125	0.437		E/SC/SC
QS-4459	E	2.000	1.688	3SC	2.125	0.437		E/SC/SC
QS-5259	E	2.000	1.688	3SS	2.125	0.437		E/CA/SS
QS-6058	E	2.154	2.054	PLATE	PLATE	PLATE		N/CA/SS
QS-7491	E	2.000	1.688	3TC	2.125	0.437		B/TC/TC
QS-7504E HC	E	2.000	1.688	3SC	2.125	0.437	HC	E/CA/SC

NOTE: HC - HARD CARBON

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.500 (1-1/2") (continued)</b>								
QS-7562E HC	E	2.000	1.688	3TC	2.125	0.437	HC/++	E/CA/TC
QS-7609E	E	2.000	1.688	5SC	2.125	0.437		E/TC/SC
QS-7889V HC	E	2.000	1.688	3TC	2.125	0.437	HC/++	V/CA/TC
QS-7930E HC	E	2.000	1.688	3TC	2.125	0.437	HC/LC	E/CA/TC
QS-7933E HC	E	2.000	1.688	1TC	2.125	0.437	HC	E/CA/TC
QS-10167HC	E	2.000	1.688	---	---	---	HC	E/CA/---
QS-3615V HC	EB	2.000	2.000	3TC	2.000	0.437	HC	V/CA/TC
QS-4088E HC	EB	2.000	2.000	3C	2.000	0.437	HC	E/CA/CE
QS-4317	EB	2.000	2.000	3SS	2.000	0.437		B/CA/SS
QS-4473	EB	2.000	2.000	3C	2.000	0.437		B/CA/CE
QS-4476V	EB	2.000	2.062	3C	2.125	0.437		V/CA/CE
QS-3992V	G	2.125	1.181	1C	2.125	0.437		V/CA/CE
QS-292	J	2.210	1.250	1C	2.250	0.375		B/CA/CE
QS-216	K	2.187	1.625	---	---	---		B/CA/---
QS-541	K	2.187	1.625	1C	2.125	0.437		B/CA/CE
QS-541V	K	2.187	1.625	3C	2.125	0.437		V/CA/CE
QS-884	K	2.187	1.625	1SS	2.125	0.437		B/CA/SS
QS-1624	K	2.187	2.125	3C/3S	2.312	0.437		B/CA/CE/CA/SS
QS-2850AN	K	2.187	2.000	---	---	---		N/CA/---
QS-2860AN	K	2.187	1.687	51	2.250	PLT		N/CA/PLT
QS-2945A	K	2.187	1.687	2SS	2.250	0.312		B/CA/SS
QS-2955A	K	2.187	2.000	3B/51	PLT 2.312	0.562		B/CA/BR/PLT
QS-3128	K	2.187	1.875	1C	2.125	0.437		B/CA/CE
QS-3130	K	2.187	1.875	1SS	2.125	0.437		B/CA/SS
QS-3558	K	2.171	1.625	3C	2.375	0.437		B/CA/CE
QS-3918A	K	2.187	1.687	3TC1C	2.187/2.125	.812/.438		B/CA/TC/CA/CE
QS-3919A	K	2.187	1.687	3SS	2.125/2.000	.447/.880		B/CA/SS
QS-3972V	K	2.187	1.625	3SC	2.500/2.125	0.437		V/SC/SC
QS-2875AN	L-1	2.000	1.437	---	---	---		N/CA/---
QS-2930AN	L-2	2.125	1.875	---	---	---		N/CA/---
QS-4791A	L-2	2.062	1.437	3CA	2.500	0.828		B/SS/CA
QS-9930A	M	2.252	0.350	8SS	M.O.S.	0.152		B/CA/SS

NOTE: HC - HARD CARBON  
LC - LOCK COLLAR  
PLT - PLATE SEAT  
++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.500 (1-1/2") (continued)</b>								
QS-431	R	2.312	1.875	1C	2.125	0.437		B/CA/CE
QS-432	R	2.312	1.875	1SS	2.125	0.437		B/CA/SS
QS-1500G	S	---	---	8SS	SP	---		N/BR/SS
QS-691	T	2.000	2.437	1C	2.125	0.437		B/CA/CE
QS-868	T	2.000	2.437	1C	2.125	0.437		B/CA/CE
QS-915	U	2.000	2.062	3C	2.000	0.437		B/CA/CE
QS-7587	T9	2.125	1.125	2C	2.125	0.437	316SS	CA/CE
QS-9318	T9	2.125	1.125	27C	2.781	0.875	316SS	CA/CE
QS-9353	T9	2.125	1.125	25TC	2.125	0.437	316SS	CA/TC
QS-9713	T9T Dbl.	1.942	2.250	3C	2.375	0.437	316SS	CA/CE
QS-8002	T8-1 Special	2.312	0.937	3C	2.125	0.437		B/CA/CE
QS-8600E	T8-1	2.125	1.125	5TC	2.133	0.437	316SS	E/CA/TC
QS-8109V	T8B2	2.250	1.000	3 Special	2.125	0.437	316SS	V/CA/CE
QS-8210-8B2	T8B2	2.250	1.000	---	---	---	316SS	V/CA/---
QS-1943AV	Z	2.500	0.850	SEAT UNITIZED WITH SEAL				V/CA/CE
<b>1.531 SHAFT</b>								
QS-2960A	C	2.187	0.875	2SS	2.375	0.281		B/CA/SS
QS-2960EA	C	2.187	0.875	2SS	2.375	0.281		B/CA/SS
QS-4225AV	C	2.187	0.875	2SS	2.375	0.281		V/CA/SS
QS-2957A	D	2.312	1.125	51	---	PLT		B/CA/PLT
<b>1.562 (1-9/16") SHAFT</b>								
QS-2965A	C	2.187	1.000	52	---	PLT		B/CA/PLT
QS-2970AN	C	2.187	1.437	---	---	---		N/CA/---
QS-2975AN	C	2.187	1.125	---	---	---		N/CA/---
QS-5800A	C	2.187	1.000	2SS	2.250	0.375		B/CA/SS
QS-5801A	C	2.187	1.000	2SS	2.250	0.375		B/CA/SS
QS-22123AN	C	2.187	2.375	52	---	PLT		N/CA/PLT
QS-664	E	2.250	1.688	3C	2.375	0.500		B/CA/CE
QS-1193	E	2.250	1.688	3SS	2.375	0.500		B/CA/SS
QS-1194	E	2.250	1.688	1SS	2.375	0.500		B/CA/SS

NOTE: PLT - PLATE SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.562 (1-9/16") (continued)</b>								
QS-2707N	Special	2.625	0.937	Special	2.250	0.406		N/CA/SS
QS-1949AV	Z	2.625	0.950	SEAT UNITIZED WITH SEAL				V/CA/CE
QS-2967AV	Z	2.625	0.950	SEAT UNITIZED WITH SEAL				V/CA/SS
<b>1.575 (40MM) SHAFT</b>								
QS-4960A	C	2.187	2.000	1C	2.375	0.468		B/CA/CE
QS-4955A	D	2.312	2.000	2SS	2.500	0.406		B/CA/SS
QS-4956A	D	2.312	2.000	2SS	2.500	0.312		B/CA/SS
QS-4957A	D	2.312	2.000	2SS	2.500	0.406		B/CA/SS
<b>1.594 SHAFT</b>								
QS-2980A	C	2.500	1.687	2SS	2.375	0.437		B/CA/SS
<b>1.601 SHAFT</b>								
QS-4852AN	K	2.500	2.000	3SS	2.500	0.500		N/CA/SS
<b>1.625 (1-5/8") SHAFT</b>								
QS-238	C	2.500	1.375	1C	2.375	0.500		B/CA/CE
QS-238-E	C	2.500	1.375	1C	2.375	0.500		E/CA/CE
QS-238-E-SC	C	2.500	1.375	1SC	2.375	0.500		E/CA/SC
QS-238-HC SC	C	2.500	1.375	1SC	2.375	0.500	HC	B/CA/CE
QS-238-SC-SC	C	2.500	1.375	1SC	2.375	0.500		B/SC/SC
QS-238-SC-TC	C	2.500	1.375	1TC	2.375	0.500		B/SC/TC
QS-238V	C	2.500	1.375	3C	2.375	0.500		V/CA/CE
QS-238V-HC-TC	C	2.500	1.375	1TC	2.375	0.500	HC	V/CA/TC
QS-238V-CASC	C	2.500	1.375	1SC	2.375	0.500		V/CA/SC
QS-238V-TC-SC	C	2.500	1.375	1SC	2.375	0.500		V/TC/SC
QS-239	C	2.500	1.375	1SS	2.375	0.500		B/CA/CE
QS-239-E	C	2.500	1.375	3SS	2.375	0.500		E/CA/SS
QS-239-HC	C	2.500	1.375	1SS	2.375	0.500	HC	B/CA/SS
QS-239V	C	2.500	1.375	3SS	2.375	0.500		V/CA/SS
QS-239V-CATC	C	2.500	1.375	3TC	2.375	0.500		V/CA/TC
QS-544	C	2.500	1.375	3SS	2.375	0.500		B/CA/SS
QS-544V-SC-SC	C	2.500	1.375	3SC	2.375	0.500		V/SC/SC
QS-818	C	2.500	1.375	3C	2.375	0.500		B/CA/CE
QS-818-HC	C	2.500	1.375	3C	2.375	0.500	HC	B/CA/CE
QS-1019	C	2.500	1.375	3SS	2.625	0.500		B/CA/SS
QS-1019-HC	C	2.500	1.375	1SS	2.625	0.500	HC	B/CA/SS

NOTE: HC - HARD CARBON

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.625 (1-5/8") (continued)</b>								
QS-1019-SC-SC	C	2.500	1.375	3SS	2.625	0.500		B/SC/SC
QS-1019-CATC	C	2.500	1.375	3TC	2.625	0.500		V/CA/TC
QS-1019V	C	2.500	1.375	3SS	2.625	0.500		V/CA/SS
QS-1019V-HC	C	2.500	1.375	3SS	2.625	0.500	HC	V/CA/SS
QS-1019V-SC-SC	C	2.500	1.375	3SC	2.625	0.500		V/SC/SC
QS-1035	C	2.500	1.375	28SS	3.544	1.250		B/CA/SS
QS-1039	C	2.500	1.375	28SS	3.544	1.250		V/CA/SS
QS-2107	C	2.500	1.375	---	---	---		B/CA/---
QS-2201E HC	C	2.500	1.375	3SS	2.625	0.500	HC	E/CA/SS
QS-2202	C	2.500	1.375	3C	2.625	0.500		B/CA/CE
QS-2202-HC	C	2.500	1.375	3C	2.625	0.500	HC	B/CA/CE
QS-2202V	C	2.500	1.375	3C	2.625	0.500		V/CA/CE
QS-2749V	C	2.500	1.375	1SC	2.375	0.500	316SS	V/TC/SC
QS-3015AN	C	2.500	1.375	51	3.000	PLT		N/CA/PLT
QS-3020A	C	2.500	1.375	3SS	2.437	0.375		B/CA/SS
QS-3020AV	C	2.500	1.375	3SS	2.437	0.375		V/CA/SS
QS-3022A	C	2.500	1.125	52	---	PLT		B/CA/PLT
QS-3025AN	C	2.500	1.375	2BR	2.500	0.500		N/CA/BR
QS-3030E HC	C	2.625	1.375	1C	2.375	0.500	HC	E/CA/CE
QS-3035A	C	2.500	1.375	2SS	2.375	0.500		B/CA/SS
QS-3055A	C	2.500	1.000	2SS	2.469	0.250		B/CA/SS
QS-3055AV	C	2.500	1.000	2SS	2.469	0.250		V/CA/SS
QS-3058	C	2.500	1.375	1TC	2.375	0.500		B/CA/TC
QS-3066A	C	2.500	1.000	2SS	2.469	0.250		E/CA/SS
QS-3075A	C	2.500	1.125	8SS	--	PLT		B/CA/PLT
QS-3078	C	2.500	1.375	3SS	2.625	0.500	316SS	B/CA/SS
QS-3138	C	2.500	2.468	1SS	2.375	0.500		B/CA/SS
QS-3144V	C	2.500	1.375	1TC	2.375	0.500		V/TC/TC
QS-3145	C	2.500	1.375	1SC	2.375	0.500		B/TC/SC
QS-3171V-HC	C	2.500	1.375	3C	2.375	0.500	HC	V/CA/CE
QS-3179	C	2.500	2.468	1SC	2.375	0.500		B/CA/SC
QS-3523V HC	C	2.500	1.375	3TC	2.375	0.500	HC	V/CA/TC
QS-3543V-HC	C	2.500	1.375	1TC	2.375	0.500	HC/316SS	V/CA/TC
QS-3616E	C	2.500	1.375	1SS	2.375	0.500		E/CA/SS
QS-3664	C	2.500	1.375	1TC	2.375	0.500		B/TC/TC
QS-3831	C	2.479	1.312	1C	2.375	0.500	*	B/CA/CE
QS-3832E HC	C	2.550	1.312	1SC	2.375	0.500	HC/*	E/CA/SC
QS-3939V	C	2.500	1.125	3 Special	2.375	0.500		V/CA/SS
QS-3967	C	2.500	1.375	1SC	2.375	0.500		B/CA/SC
QS-4068E HC	C	2.500	1.375	3TC	2.375	0.500	HC	E/CA/TC
QS-4288E	C	2.500	1.375	3TC	2.625	0.500		E/CA/TC
QS-4389 HC	C	2.500	1.375	1SC	2.375	0.500	HC	B/CA/SC
QS-4525	C	2.500	1.375	1C	2.375	0.500		B/CA/CE
QS-4597	C	2.500	1.375	1C	2.375	0.500	316SS	B/CA/CE
QS-6005V	C	2.500	1.062	3SS	2.375	0.375		V/CA/SS
QS-6685AN	C	2.500	1.375	2SS	2.375	0.375		N/CA/SS
QS-6995A	C	2.500	1.375	2SS	2.312	0.500		B/CA/SS
QS-7017E HC	C	2.500	1.375	3SS	2.375	0.500	HC	E/CA/SS
QS-7497	C	2.500	1.312	25C	2.500	0.812		B/CA/CE

NOTE: HC - HARD CARBON  
PLT - PLATE SEAT  
\* - TAPERED SPRING



Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.625 (1-5/8") (continued)</b>								
QS-7806V	C	2.500	1.375	1SC	2.375	0.500		V/SC/SC
QS-7885AV	C	2.500	0.800	3SS	2.750	0.312		V/CA/SS
QS-7902V	C	2.500	1.375	1C	2.375	0.500		V/CA/CE
QS-9497V	C	2.500	1.312	25C	2.500	0.812		V/CA/CE
QS-331	D	2.718	1.125	3SS	2.437	0.500		B/CA/SS
QS-461	D	2.718	1.375	1SS	2.375	0.500		B/CA/SS
QS-461-CATC	D	2.718	1.375	1TC	2.375	0.500		B/CA/TC
QS-461V	D	2.718	1.375	3SS	2.375	0.500		V/CA/SS
QS-514	D	2.718	1.375	1C	2.375	0.500		B/CA/CE
QS-514-E	D	2.718	1.375	1C	2.375	0.500		E/CA/CE
QS-514-E-HC	D	2.718	1.375	1C	2.375	0.500	HC	E/CA/CE
QS-514-E-CATC	D	2.718	1.375	1TC	2.375	0.500		E/CA/TC
QS-514-HC	D	2.718	1.375	1C	2.375	0.500	HC	B/CA/CE
QS-514-SC-SC	D	2.718	1.375	1SC	2.375	0.500		B/SC/SC
QS-514V	D	2.718	1.375	3C	2.375	0.500		V/CA/CE
QS-514V-HC-1	D	2.718	1.375	1SC	2.375	0.500	HC	V/CA/SC
QS-514V-HC-3	D	2.718	1.375	3C	2.375	0.500	HC	V/CA/CE
QS-514V-SC-SC	D	2.718	1.375	3SC	2.375	0.500		V/SC/SC
QS-819	D	2.718	1.375	3SS	2.375	0.500		B/CA/SS
QS-821	D	2.718	1.375	3C	2.375	0.500		B/CA/CE
QS-1697	D	2.718	1.375	3SS	2.375	0.500		B/CA/SS
QS-1697-CATC	D	2.718	1.375	3TC	2.375	0.500		B/CA/TC
QS-1698	D	2.718	1.375	3C	2.375	0.500		B/CA/CE
QS-2055	D	2.718	1.375	1C	2.375	0.500		B/CA/CE
QS-2055V	D	2.718	1.375	1C	2.375	0.500		V/CA/CE
QS-2056	D	2.718	1.375	1SS	2.375	0.500		B/CA/SS
QS-2165	D	2.718	1.375	28SS	3.544	1.250		B/CA/SS
QS-2739V	D	2.718	1.375	3TC	2.375	0.500	++316SS	V/SC/TC
QS-3025E HC	D	2.718	1.375	1SC	2.375	0.500	HC	E/CA/SC
QS-3026	D	2.718	1.125	3SS	2.437	0.500		B/CA/SS
QS-3039AF	D	2.718	1.375	3SC	2.375	0.500		AF/SC/SC
QS-3186V	D	2.718	1.375	3SC	2.375	0.500	316SS	V/CA/SC
QS-3223	D	2.718	1.375	3SC	2.375	0.500		B/TC/SC
QS-3772V	D	2.718	1.375	3SC	2.375	0.500		V/TC/SC
QS-4361	D	2.718	1.375	1TC	2.375	0.500		B/SC/TC
QS-4435	D	2.718	1.375	28SS	3.544	1.250		B/CA/SS
QS-6075V	D	2.718	1.062	3SS	2.375	0.375		V/CA/SS
QS-346	E	2.250	2.000	1C	2.312	0.500		B/CA/CE
QS-346-HC	E	2.250	2.000	1C	2.312	0.500	HC	B/CA/CE
QS-484	E	2.250	2.000	1SS	2.312	0.500		B/CA/SS
QS-595	E	2.250	2.000	3C	2.375	0.500		B/CA/SS
QS-609	E	2.250	2.000	1C	2.312	0.500		B/CA/CE
QS-609V	E	2.250	2.000	1C	2.312	0.500		V/CA/CE
QS-610	E	2.250	2.000	1SS	2.312	0.500		B/CA/SS
QS-610V	E	2.250	2.000	1SS	2.312	0.500		V/CA/SS

NOTE: HC - HARD CARBON  
++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.625 (1-5/8") (continued)</b>								
QS-744	E	2.250	2.000	1SS	2.375	0.500		B/CA/SS
QS-744V	E	2.250	2.000	3SS	2.375	0.500		B/CA/SS
QS-745	E	2.250	2.000	1SS	2.375	0.500		B/CA/CE
QS-745-HC	E	2.250	2.000	1C	2.375	0.500	HC	B/CA/CE
QS-745V	E	2.250	2.000	3C	2.375	0.500		V/CA/CE
QS-747	E	2.250	2.000	1C	2.375	0.500		B/CA/CE
QS-822	E	2.250	2.000	3SS	2.375	0.500		B/CA/SS
QS-822-E	E	2.250	2.000	3SS	2.375	0.500		E/CA/SS
QS-822-HC	E	2.250	2.000	3SS	2.375	0.500	HC	B/CA/SS
QS-1683	E	2.250	2.000	3C	2.375	0.500		B/CA/CE
QS-1683-HC	E	2.250	2.000	3C	2.375	0.500	HC	B/CA/CE
QS-1683V	E	2.250	2.000	3C	2.375	0.500		V/CA/CE
QS-1699	E	2.250	2.000	3SS	2.375	0.500		B/CA/SS
QS-1699V	E	2.250	2.000	3SS	2.375	0.500		V/CA/SS
QS-1699V-SC-TC	E	2.250	2.000	3TC	2.375	0.500		V/SC/TC
QS-1699V-HC	E	2.250	2.000	3TC	2.375	0.500	HC	V/CA/TC
QS-2057	E	2.250	2.000	1C	2.375	0.500		B/CA/CE
QS-2058	E	2.250	2.000	1SS	2.375	0.500		B/CA/SS
QS-2058V-CATC	E	2.250	2.000	1TC	2.375	0.500		V/CA/TC
QS-2717	E	2.250	2.000	3SC	2.375	0.500		B/TC/SC
QS-3113AF	E	2.250	2.000	3SC	2.375	0.500		AF/TC/SC
QS-3183V HC	E	2.250	2.000	3SS	2.375	0.500	HC	V/SC/SS
QS-3853V	E	2.250	2.000	1SC	2.375	0.500		V/SC/SC
QS-3931	E	2.250	2.000	2SS	2.312	0.562		B/CA/SS
QS-4099	E	2.250	2.000	1SC	2.375	0.500		B/SC/SC
QS-4280A	E	2.250	2.000	1C	2.750	0.468		B/CA/CE
QS-4300A	E	2.250	2.000	1C	2.375	0.468		B/CA/CE
QS-4471V	E	2.250	2.000	3SC	2.375	0.500		V/CA/SC
QS-5225A	E	2.250	1.375	1SS	2.375	0.531		B/CA/SS
QS-6348	E	2.250	2.000	3SS	2.375	0.500		B/CA/SS
QS-6349V	E	2.250	2.000	3SS	2.375	0.500		V/CA/SS
QS-8005A	E	2.312	2.000	2SSS	2.312	0.500		B/CA/SS
QS-8115A	E	2.250	1.375	1C	2.375	0.468		B/CA/CE
QS-4159	EB	2.250	2.375	3C	2.125	0.437		V/CA/CE
QS-4269V	EB	2.250	2.375	3TC	2.125	0.437		V/CA/TC
QS-4374	EB	2.250	2.375	3C	2.125	0.437		B/CA/CE
QS-4545	EB	2.250	2.375	5TC	2.125	0.437		B/CA/TC
QS-4653V	EB	2.250	2.375	3C	2.125	0.437		V/CA/CE
QS-6262E	G	2.205	1.375	1C	2.375	0.500	316SS	E/CA/CE
QS-6263E	G	2.205	1.375	1TC	2.375	0.500	316SS	E/CA/TC
QS-195	K	2.500	2.125	1SS	2.375	0.500		B/CA/SS
QS-1195	K	2.500	2.125	1C	2.375	0.500		B/CA/CE

NOTE: HC - HARD CARBON

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.625 (1-5/8") (continued)</b>								
QS-3111V SCSC	K	2.500	2.125	1SC	2.375	0.500		V/SC/SC
QS-3978AN	K	2.500	2.375	2SS	2.625	0.437		N/CA/SS
QS-4572V	K	2.500	2.125	1SC 1CE	2.375	0.500		V/CA/SC/SC /CE
QS-3005A	L-2	2.250	2.375	---	---	---		B/CA/---
QS-6311	Q	2.812	0.973	Special	2.375	0.390		N/CA/BR
QS-281	R	2.718	2.125	3SS	2.375	0.500		B/CA/SS
QS-3071N	R	2.625	2.125	3SS	2.375	0.500	++	N/BR/SS
QS-3988N	R	2.825	2.125	3SS	2.375	0.500		N/CA/SS
QS-692	T	2.250	2.875	1C	2.375	0.500		B/CA/CE
QS-458	U	2.250	2.875	1C	2.375	0.500		B/CA/CE
QS-9017	T9T	2.250	1.156	28SS	2.875	0.625	316SS	CA/SS
QS-9332	T9T	2.250	1.156	28STE	2.875	0.625	316SS	CA/STE
QS-9718	T9 Special	2.375	2.125	2SS	2.375	0.500	316SS	CA/SS
QS-8118E	T8B1	2.375	1.750	3SC	2.000	0.381	316SS	E/SC/SC
QS-8071V	T8B1T	2.187	1.750	3TC	2.062	0.437	316SS	V/CA/TC
QS-8040V	T8B2	2.437	1.165	27C	2.843	1.000	316SS	V/CA/CE
QS-6008	T8 Special	2.718	1.375	25SS Special	2.410	0.406		B/CA/SS
<b>1.653 (42MM) SHAFT</b>								
QS-3082AV	C	2.500	1.375	3SS	2.375	0.500		V/CA/SS
<b>1.687 (1-11/16") SHAFT</b>								
QS-3037A	D	2.750	0.950	2SS	2.500	0.250		B/CA/SS
QS-3037AE	D	2.750	0.950	2SS	2.500	0.250		E/CA/SS
QS-3037AV	D	2.750	0.950	2SS	2.500	0.250		V/CA/SS
QS-3087A	D	2.750	0.950	2SS	2.437	0.375		B/CA/SS
QS-5002	D	2.875	0.875	2SS	2.500	0.312		B/CA/SS
QS-5194V	D	2.875	0.875	2SS	2.500	0.312		V/CA/SS
QS-4094	E	2.875	2.000	1C	2.375	0.500		B/CA/CE
QS-6612A	E	2.375	1.500	2B	2.594	0.375		B/CA/BR
QS-3090AN	K	2.375	1.500	3B	2.312	0.500		N/CA/BR

NOTE: ++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.687 (1-11/16") (continued)</b>								
QS-8010AN	L-1	2.500	1.125	---	---	---		N/CA/---
<b>1.692 (43MM) SHAFT</b>								
QS-5654V	C	2.315	1.338	2SS	2.400	0.434	316SS	V/CA/SS
QS-4039V	G	2.322	1.456	1SC	2.400	0.315	316SS	V/SC/SC
<b>1.750 (1-3/4") SHAFT</b>								
QS-387	C	2.625	1.375	3C	2.625	0.500		B/CA/CE
QS-434	C	2.625	1.375	1C	2.500	0.500		B/CA/CE
QS-436	C	2.625	1.375	3SS	2.500	0.500	++	B/CA/SS
QS-436-E	C	2.625	1.375	3SS	2.500	0.500	++	E/CA/SS
QS-436-HC	C	2.625	1.375	3SS	2.500	0.500	HC/++	B/CA/SS
QS-436-SC-SC	C	2.625	1.375	3SC	2.500	0.500	++	B/SC/SC
QS-436-CASC	C	2.625	1.375	3SC	2.500	0.500	++	B/CA/SC
QS-436-TC-TC	C	2.625	1.375	3TC	2.500	0.500	++	B/TC/TC
QS-436-TC-SC	C	2.625	1.375	3SC	2.500	0.500	++	B/TC/SC
QS-436V	C	2.625	1.375	3SS	2.500	0.500	++	V/CA/SS
QS-436V-HC	C	2.625	1.375	3SS	2.500	0.500	HC/++	V/CA/SS
QS-436V-TC-TC	C	2.625	1.375	3TC	2.500	0.500		V/TC/TC
QS-446	C	2.625	1.375	1C	2.500	0.500		B/CA/CE
QS-446-316SS	C	2.625	1.375	1C	2.500	0.500	316SS	B/CA/CE
QS-446-E	C	2.625	1.375	1C	2.500	0.500		E/CA/CE
QS-446-E-HC	C	2.625	1.375	1C	2.500	0.500	HC	E/CA/CE
QS-446-E-CASC	C	2.625	1.375	1SC	2.500	0.500		E/CA/SC
QS-446-HC	C	2.625	1.375	1C	2.500	0.500	HC	B/CA/CE
QS-446-SC-SC	C	2.625	1.375	1SC	2.500	0.500		B/SC/SC
QS-446-CASC	C	2.625	1.375	1SC	2.500	0.500		B/CA/SC
QS-446-SC-TC	C	2.625	1.375	1TC	2.500	0.500		B/SC/TC
QS-446-TC-TC	C	2.625	1.375	1TC	2.500	0.500		B/TC/TC
QS-446V	C	2.625	1.375	3C	2.500	0.500		V/CA/CE
QS-446V-HC	C	2.625	1.375	3C	2.500	0.500	HC	V/CA/CE
QS-446V CASC	C	2.625	1.375	3SC	2.500	0.500		V/CA/SC
QS-446V-SC-TC	C	2.625	1.375	3TC	2.500	0.500		V/SC/TC
QS-446V-CATC	C	2.625	1.375	1TC	2.500	0.500		V/CA/TC
QS-446V-TC-TC	C	2.625	1.375	1TC	2.500	0.500		V/TC/TC
QS-448	C	2.625	1.375	1SS	2.500	0.500		B/CA/SS
QS-448-E	C	2.625	1.375	1SS	2.500	0.500		E/CA/SS
QS-448-HC	C	2.625	1.375	1SS	2.500	0.500	HC	B/CA/SS
QS-448V	C	2.625	1.375	1SS	2.500	0.500		V/CA/SS
QS-448V-HC	C	2.625	1.375	1SS	2.500	0.500	HC	V/CA/SS

NOTE: HC - HARD CARBON  
++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.750 (1-3/4") (continued)</b>								
QS-448V-SC-TC	C	2.625	1.375	1TC	2.500	0.500		V/SC/TC
QS-448V-HC-TC	C	2.625	1.375	1TC	2.500	0.500	HC	V/CA/TC
QS-550	C	2.625	1.375	3C	2.500	0.500		B/CA/CE
QS-1038	C	2.625	1.375	28SS	3.544	0.500		B/CA/SS
QS-1055	C	2.625	1.125	---	---	---		B/CA/---
QS-1056	C	2.625	1.125	3SS	2.500	0.437	++	B/CA/SS
QS-1056V	C	2.625	1.125	3SS	2.500	0.500	++	V/CA/SS
QS-1056V-CASC	C	2.625	1.125	3SC	2.500	0.500	++	V/CA/SC
QS-1068	C	2.625	1.125	1SS	2.500	0.500		B/CA/SS
QS-1674	C	2.625	2.000	1SS	2.500	0.500		B/CA/SS
QS-1674-E-HC	C	2.625	2.000	1SS	2.500	0.500	HC	E/CA/SS
QS-1674-CASC	C	2.625	2.000	1SC	2.500	0.500		B/CA/SC
QS-1674-CATC	C	2.625	2.000	1TC	2.500	0.500		B/CA/TC
QS-1674 CE	C	2.625	2.000	1C	2.500	0.500		E/CA/CE
QS-1674V CE	C	2.625	2.000	1C	2.500	0.500		V/CA/CE
QS-1674V-TC-TC	C	2.625	2.000	1TC	2.500	0.500		V/TC/TC
QS-2108	C	2.625	1.375	---	---	---		B/CA/---
QS-2130A	C	2.625	1.375	52/2S	2.500	PLT		B/CA/PLT/S S
QS-2135	C	2.625	2.000	1C	2.500	0.500		B/CA/CE
QS-2135-HC	C	2.625	2.000	1SS	2.500	0.500	HC	B/CA/CE
QS-2135-SC-SC	C	2.625	2.000	1SC	2.500	0.500		B/SC/SC
QS-2135V	C	2.625	2.000	1C	2.500	0.500		V/CA/CE
QS-2142	C	2.625	2.000	1SS	2.500	0.500		B/CA/CE
QS-2142-HC	C	2.625	2.000	1C	2.500	0.500	HC	B/CA/CE
QS-2150	C	2.625	2.000	3C	2.500	0.500		B/CA/CE
QS-2151	C	2.625	2.000	3SS	2.500	0.500	++	B/CA/SS
QS-2151E-HC	C	2.625	2.000	3SS	2.500	0.500	HC/++	E/CA/SS
QS-2151V	C	2.625	2.000	3SS	2.500	0.500	++	V/CA/SS
QS-2151V-CATC	C	2.625	2.000	3TC	2.500	0.500	++	V/CA/TC
QS-2207V	C	2.625	1.375	3TC	2.500	0.500		V/CA/TC
QS-2210	C	2.625	1.375	1TC	2.500	0.500		B/CA/TC
QS-2212	C	2.625	1.125	1C	2.500	0.500		B/CA/CE
QS-2212-SC-SC	C	2.625	1.125	1SC	2.500	0.500		B/SC/SC
QS-3105A	C	2.625	1.125	1BR	2.625	0.468		B/CA/BR
QS-3120AN	C	2.625	1.375	3SS	3.344	0.562		N/CA/SS
QS-3125 HC	C	2.625	1.375	3C	2.500	0.500	HC	B/CA/CE
QS-3135AN	C	2.625	1.375	51	2.812	PLT		N/CA/PLT
QS-3145AV	C	2.625	1.375	2SS	2.500	0.500		V/CA/SS
QS-3170A	C	2.625	0.900	2SS	2.656	0.375		B/CA/SS
QS-3114 TCTC	C	2.625	1.750	1TC	2.500	0.500	LC	B/TC/TC
QS-3114V TCTC	C	2.625	1.750	1TC	2.500	0.500	LC	V/TC/TC
QS-3118V	C	2.625	1.375	1C	2.500	0.500	LC	V/CA/CE
QS-3190AN	C	2.625	1.850	51	2.750	PLT		N/CA/PLT

NOTE:      HC      - HARD CARBON  
                  LC      - LOCK COLLAR  
                  PLT     - PLATE SEAT  
                  ++      - SLOTTED SEAT



Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.750 (1-3/4") (continued)</b>								
QS-3271V	C	2.625	2.000	1SC	2.500	0.500		V/SC/SC
QS-3271A	C	2.625	2.000	2SS	2.500	0.484		B/CA/SS
QS-3272	C	2.625	2.000	1TC	2.500	0.500		B/TC/TC
QS-3687	C	2.625	1.062	3TC	2.500	0.500		B/TC/TC
QS-3718	C	2.625	1.062	3C	2.500	0.500		B/CA/CE
QS-3718V	C	2.625	1.062	3C	2.500	0.500		V/CA/CE
QS-3719	C	2.625	1.125	3TC	2.500	0.500		B/SC/TC
QS-3789V	C	2.625	1.125	3SS	2.500	0.437		V/CA/SS
QS-3857E	C	2.625	1.375	1TC	2.500	0.500		E/SC/TC
QS-3963	C	2.625	1.062	3TC	2.500	0.500		B/SC/TC
QS-4153V	C	2.625	1.375	1C	2.500	0.500	316SS	V/CA/CE
QS-4205V	C	2.625	1.375	1SC	2.500	0.500	316SS	V/SC/SC
QS-4410	C	2.625	1.125	1TC	2.500	0.500		B/TC/TC
QS-4461V	C	2.625	1.375	1SC	2.500	0.500		V/TC/SC
QS-4596E	C	2.625	1.375	3SC	2.500	0.500		E/SC/SC
QS-4884V	C	2.625	1.250	3C	2.500	0.500	316SS	V/CA/CE
QS-5389	C	2.392	1.375	3C	2.500	0.500	++	B/CA/CE
QS-6241	C	2.625	1.062	3SC	2.500	0.500		B/SC/SC
QS-6690AN	C	2.625	1.375	2SSS	2.625	0.688		N/CA/SS
QS-7035E HC	C	2.625	1.375	3TC	2.500	0.500	HC	E/CA/TC
QS-7607E	C	2.625	1.375	3SC	2.500	0.500		E/CA/SC
QS-7679V	C	2.625	1.375	3SC	2.500	0.500		V/SC/SC
QS-7684E	C	2.625	1.375	1TC	2.500	0.500		E/CA/TC
QS-7820V	C	2.625	1.375	1SC	2.500	0.500		V/SC/SC
QS-7886AV	C	2.625	0.800	3SS	2.500	0.312		V/CA/SS
QS-7975AN	C	2.625	1.375	2SS	2.500	0.468		N/CA/SS
QS-9947A	C	2.625	1.125	3SS	2.500	0.500		B/CA/SS
QS-2108E-HC	C	2.625	1.375	---	---	---	HC	E/CA/---
QS-10045V	C	2.625	1.375	---	---	---		V/CA/---
QS-10159SC	C	2.625	1.375	---	---	---		B/SC/---
QS-10168HC	C	2.625	1.375	---	---	---	HC	B/CA/---
QS-4035	C/X Special	2.609	1.250	1C	2.500	0.500		B/CA/CE
QS-147	D	2.750	1.375	---	---	---		B/CA/---
QS-237	D	2.750	1.375	1C	2.500	0.500		B/CA/CE
QS-237-E	D	2.750	1.375	1C	2.500	0.500		E/CA/CE
QS-237-HC	D	2.750	1.375	1C	2.500	0.500	HC	B/CA/CE
QS-237-SC-SC	D	2.750	1.375	1SC	2.500	0.500		B/SC/SC
QS-237-CATC	D	2.750	1.375	1TC	2.500	0.500		B/CA/TC
QS-237-TC-TC	D	2.750	1.375	1TC	2.500	0.500		B/TC/TC
QS-237V	D	2.750	1.375	3C	2.500	0.500		V/CA/CE
QS-237V-HC	D	2.750	1.375	3C	2.500	0.500	HC	V/CA/CE
QS-288	D	2.750	1.375	1SS	2.500	0.500		B/CA/SS
QS-288-E	D	2.750	1.375	1SS	2.500	0.500		E/CA/SS
QS-288-HC	D	2.750	1.375	1SS	2.500	0.500	HC	B/CA/SS
QS-288V	D	2.750	1.375	3SS	2.500	0.500	++	V/CA/SS
QS-568N	D	2.750	1.781	3SS	2.456	0.468		N/CA/SS

NOTE: HC - HARD CARBON  
++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.750 (1-3/4") (continued)</b>								
QS-825	D	2.750	1.375	3SS	2.500	0.500	++	B/CA/SS
QS-826	D	2.750	1.375	3C	2.500	0.500		B/CA/CE
QS-1004AN	D	2.750	0.900	52/2S	PLT/2.656	PLT		N/CA/PLT/S S
QS-1059AN	D	2.750	0.900	2SS	2.656	0.375		N/CA/SS
QS-2059	D	2.750	1.375	1C	2.500	0.500		B/CA/CE
QS-2059V	D	2.750	1.375	1C	2.500	0.500		V/CA/CE
QS-2060	D	2.750	1.375	1SS	2.500	0.500		B/CA/SS
QS-2060-TC-TC	D	2.750	1.375	1TC	2.500	0.500		B/TC/TC
QS-2061	D	2.750	1.375	3C	2.500	0.500		B/CA/CE
QS-2061-CASC	D	2.750	1.375	3SC	2.500	0.500		B/CA/SC
QS-2062	D	2.750	1.375	3SS	2.500	0.500	++	B/CA/SS
QS-3113AN	D	2.750	1.100	3SS	2.500	0.500		N/CA/SS
QS-3115AN	D	2.750	1.375	---	---	---		N/CA/---
QS-3136A	D	2.750	1.375	3BR	2.500	0.500		B/CA/BR
QS-3267	D	2.750	1.375	3SC	2.500	0.500	316SS	B/TC/SC
QS-4026N	D	2.806	1.031	3SS	2.500	0.281		N/CA/SS
QS-4399AF	D	2.750	1.375	3C	2.500	0.500		AF/CA/CE
QS-4487V	D	2.750	1.375	1SC	2.500	0.500	316SS	V/SC/SC
QS-6217V	D	2.750	1.375	1SC	2.500	0.500	316SS	V/TC/SC
QS-7652E	D	2.750	1.375	1TC	2.500	0.500		E/CA/TC
QS-7752V	D	2.750	1.375	3SC	2.500	0.500		V/TC/SC
QS-7959V	D	2.750	1.375	3TC	2.500	0.500		V/SC/TC
QS-4491	DB	2.750	1.750	3TC	2.375	0.500		B/CA/TC
QS-205	E	2.375	2.000	1C	2.500	0.500		B/CA/CE
QS-205-HC	E	2.375	2.000	1C	2.500	0.500	HC	B/CA/CE
QS-205-SC-SC	E	2.375	2.000	1SC	2.500	0.500		B/SC/SC
QS-205V	E	2.375	2.000	3C	2.500	0.500		V/CA/CE
QS-205V-HC	E	2.375	2.000	3C	2.500	0.500	HC	V/CA/CE
QS-205V-CATC	E	2.375	2.000	1TC	2.500	0.500		V/CA/TC
QS-205V-TC-TC	E	2.375	2.000	1TC	2.500	0.500		V/TC/TC
QS-262	E	2.375	2.000	3SS	2.500	0.500	++	B/CA/SS
QS-262E-HC	E	2.375	2.000	3SS	2.500	0.500	HC/++	E/CA/SS
QS-317	E	2.375	2.000	1C	2.487	0.500		B/CA/CE
QS-366	E	2.375	2.000	1SS	2.500	0.500		B/CA/SS
QS-366-CATC	E	2.375	2.000	1TC	2.500	0.500		B/CA/TC
QS-366-TC-TC	E	2.375	2.000	1TC	2.500	0.500		B/TC/TC
QS-366V	E	2.375	2.000	3SS	2.500	0.500	++	V/CA/SS
QS-366V-HC	E	2.375	2.000	1SS	2.500	0.500	HC	V/CA/SS
QS-366V-SC	E	2.375	2.000	1SC	2.500	0.500		V/CA/SC
QS-535	E	2.375	2.000	3C	2.500	0.500	++	B/CA/CE
QS-535-E	E	2.375	2.000	3C	2.500	0.500	++	E/CA/CE
QS-535-HC-TC	E	2.375	2.000	3TC	2.500	0.500	HC++	B/CA/TC

NOTE:      HC      - HARD CARBON  
              PLT      - PLATE SEAT  
              ++      - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.750 (1-3/4") (continued)</b>								
QS-858	E	2.375	2.000	3C	2.500	0.500		B/CA/CE
QS-858-E-SC-SC	E	2.375	2.000	3SC	2.500	0.500		E/SC/SC
QS-858V-CASC	E	2.375	2.000	3SC	2.500	0.500		V/CA/SC
QS-859	E	2.375	2.000	3SS	2.500	0.500		B/CA/SS
QS-859E-CASC	E	2.375	2.000	3SC	2.500	0.500		E/CA/SC
QS-859-CATC	E	2.375	2.000	3TC	2.500	0.500		B/CA/TC
QS-1031	E	2.375	2.000	3SS	2.500	0.500		B/CA/SS
QS-1032	E	2.375	2.000	1SS	2.500	0.500		B/CA/SS
QS-1033	E	2.375	2.000	1SS	2.500	0.500		B/CA/SS
QS-1078	E	2.375	2.000	27C	3.000	1.000		B/CA/CE
QS-1078V	E	2.375	2.000	27C	3.000	1.000		V/CA/CE
QS-1196	E	2.375	2.000	1C	2.500	0.500		B/CA/CE
QS-1196-E	E	2.375	2.000	1C	2.500	0.500		E/CA/CE
QS-1684	E	2.375	2.000	3C	2.312	0.500		B/CA/CE
QS-2109	E	2.375	2.000	---	---	---		B/CA/---
QS-2130	E	2.375	2.000	3C	2.625	0.500		B/CA/CE
QS-2712	E	2.375	2.375	3C	2.500	0.500	LC	V/CA/CE
QS-3024V	E	2.375	1.312	1TC	2.500	0.500		V/CA/TC
QS-3031V	E	2.375	2.000	1SC	2.500	0.500		V/SC/SC
QS-3054V	E	2.375	1.312	3SC	2.625	0.500		V/CA/SC
QS-3106A	E	2.375	1.500	1C	2.500	0.500		B/CA/CE
QS-3106AV	E	2.375	1.500	1C	2.500	0.500		V/CA/CE
QS-3169V	E	2.375	1.312	3SS	2.625	0.500		V/CA/SS
QS-3177 HC	E	2.375	2.000	1SS	2.500	0.500	HC	B/CA/SS
QS-3227V	E	2.375	1.312	3C	2.625	0.500		V/CA/CE
QS-3251V	E	2.375	2.375	3SC	2.312	0.500		V/CA/SC
QS-3540V	E	2.375	2.000	3TC	2.500	0.500		E/TC/TC
QS-3637V	E	2.375	2.375	3SS	2.500	0.500	LC/++	V/CA/SS
QS-3666A	E	2.375	1.500	2SS	2.500	0.469		B/CA/SS
QS-3673	E	2.375	2.000	3C	2.500	0.500		B/CA/CE
QS-3690V	E	2.375	2.000	5TC	2.500	0.500	++	V/CA/TC
QS-3726	E	2.375	2.375	3C	2.500	0.500	LC/++	B/CA/CE
QS-3902V	E	2.375	2.375	3C	2.500	0.500	LC/++	V/CA/CE
QS-3982V	E	2.375	1.312	3SC	2.500	0.500		V/SC/SC
QS-4115V	E	2.375	2.000	1SC	2.500	0.500		V/SC/SC
QS-4136V	E	2.375	2.375	3SC	2.500	0.500	LC	V/CA/SC
QS-4139V	E	2.375	2.000	3SS	2.625	0.500		V/CA/SS
QS-4141 HC	E	2.375	1.312	3TC	2.625	0.500	HC	E/CA/TC
QS-4149V	E	2.375	2.406	3TC	2.312	0.500	LC	V/CA/TC
QS-4186AF	E	2.375	2.000	3TC	2.500	0.500		AF/CA/TC
QS-4187E	E	2.375	1.312	1C	2.500	0.500		E/CA/CE
QS-4232V	E	2.375	1.312	3SS	2.625	0.500		V/CA/SS
QS-4233	E	2.375	2.375	3TC	2.312	0.500	LC	B/CA/TC
QS-4261V	E	2.375	1.312	3C	2.625	0.500		V/CA/CE
QS-4228V	E	2.375	1.312	3TC	2.625	0.500		V/CA/TC
QS-4290E	E	2.375	1.312	3SC	2.625	0.500		E/CA/SC
QS-4315N	E	2.375	1.875	3SS	2.500	0.500		N/CA/SS
QS-4326V	E	2.375	2.375	3C	2.312	0.500	LC	V/CA/CE

NOTE: HC - HARD CARBON  
LC - LOCK COLLAR  
++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.750 (1-3/4") (continued)</b>								
QS-4327	E	2.375	2.000	1SC	2.500	0.500		B/CA/SC
QS-4372E HC	E	2.375	2.000	5TC	2.500	0.500	HC	E/CA/TC
QS-4429 HC	E	2.375	2.000	5TC	2.500	0.500	HC	B/CA/TC
QS-4509V	E	2.375	2.000	3TC	2.500	0.500		V/TC/TC
QS-4512E	E	2.375	1.312	3SC	2.625	0.500		E/CA/SC
QS-4535	E	2.375	1.312	3SS	2.625	0.500		B/CA/SS
QS-4586V	E	2.375	2.375	3SC	2.312	0.500	LC	V/CA/SC
QS-4735AV	E	2.375	1.150	2SS	2.500	0.406		V/CA/SS
QS-5325AV	E	2.375	2.000	1C	2.625	0.496		V/CA/CE
QS-6090	E	2.375	1.437	3SS	2.500	0.500		B/CA/SS
QS-7252	E	2.375	1.312	1C	2.625	0.500		B/CA/CE
QS-7363E	E	2.375	2.000	3TC	2.500	0.500		E/CA/TC
QS-7488V	E	2.375	2.000	3SC	2.500	0.500		V/SC/SC
QS-7560V	E	2.375	2.375	3TC	2.500	0.500	LC	V/CA/TC
QS-7561V	E	2.375	2.375	3TC	2.500	0.500	LC	V/CA/TC
QS-7610E	E	2.375	2.000	5SC	2.500	0.500		E/TC/SC
QS-7736E	E	2.375	2.000	1TC	2.500	0.500		E/CA/TC
QS-7839V	E	2.375	2.375	3SC	2.500	0.500	LC	V/CA/SC
QS-7924V	E	2.375	2.000	3SC	2.500	0.500		V/CA/SC
QS-7950E HC	E	2.375	1.937	3TC	2.312	0.500	HC	E/CA/TC
QS-8016AV	E	2.375	1.050	1C	2.500	0.492		V/CA/CE
QS-9911AV	E	2.375	1.500	1SS	2.500	0.500		V/CA/SS
QS-9945A	E	2.375	2.000	27SS	2.990	1.000		B/CA/SS
QS-9960A	E	2.375	1.500	3C	2.500	0.500		B/CA/CE
QS-9961A	E	2.375	1.500	3SS	2.500	0.500		B/CA/SS
QS-9961AV	E	2.375	1.500	3SS	2.500	0.500		V/CA/SS
QS-70091VLS	E	2.375	2.250	---	---	---		V/CA/---
QS-7685	E	2.375	2.000	3C	2.375	0.500		B/CA/CE
QS-2109AF	E	2.375	2.000	---	---	---		AF/CA/---
QS-2231	EB	2.375	2.375	3SS	2.375	0.500		B/CA/SS
QS-4096V	EB	2.375	2.312	3SC	2.500	0.500		V/CA/SC
QS-4097	EB	2.375	2.375	3SS	2.500	0.500		B/CA/SS
QS-4221V	EB	2.375	2.312	3C	2.500	0.500		V/CA/CE
QS-7774	EB	2.375	2.375	3C	2.375	0.500		B/CA/CE
QS-7821	EB	2.375	2.375	3TC	2.375	0.500		B/CA/TC
QS-7901	EB	2.375	2.375	1C	2.375	0.500		B/CA/CE
QS-7949 HC	EB	2.375	2.375	3TC	2.375	0.500	HC	B/CA/TC
QS-3016	G	2.402	1.181	1SC	2.500	0.500		B/SC/SC
QS-3151V	G	2.402	1.375	1SC	2.500	0.500	316SS	V/SC/SC
QS-4216	G	2.402	1.181	1TC	2.500	0.500		B/SC/TC
QS-449	K	2.625	2.125	1C	2.500	0.500		B/CA/CE
QS-1142	K	2.625	2.125	3C/3S	2.500	0.500		B/CA/SS
QS-1197	K	2.625	2.125	1SS	2.500	0.500	++	B/CA/CE/CE/SS

NOTE: HC - HARD CARBON  
LC - LOCK COLLAR  
++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.750 (1-3/4") (continued)</b>								
QS-3040	K	2.609	2.250	3C	2.750	0.625		B/CA/CE
QS-3110AN	K	2.625	2.500	---	---	---		N/CA/---
QS-3125AN	K	2.625	2.125	---	---	---		N/CA/---
QS-3165A	K	2.625	1.500	---	---	---		B/CA/---
QS-3205A	K	2.625	1.500	1C	2.500	0.500		B/CA/CE
QS-3223A	K	2.625	1.500	2SS	2.687	0.421		B/CA/SS
QS-3236	K	2.609	2.125	1TC	2.500	0.500		B/TC/TC
QS-4304V	K	2.625	1.625	1	2.500	0.500		V/TC/TC
QS-4353	K	2.609	2.125	3	2.500	0.500		B/CA/CE
QS-4539V	K	2.609	2.125	1SC	2.500	0.500	316SS	V/SC/SC
QS-4775A	K	2.625	3.000	2SS	2.500	0.562		B/CA/SS
QS-5065A	K	2.625	2.000	2BR	2.750	0.500		B/CA/BR
QS-6246	K	2.609	2.125	1C	2.500	0.500		B/CA/CE
QS-3225AN	L-1	2.375	1.375	---	---	---		N/CA/---
QS-3250AN	L-1	2.375	1.375	---	---	---		N/CA/---
QS-3210AN	L-2	2.375	2.250	---	---	---		N/CA/---
QS-4788A	L-2	2.375	1.675	25CA	2.500	0.750		N/SS/CA
QS-4133	Q	3.000	0.689	Special	2.500	0.412		B/CA/SC
QS-213	R	2.750	2.125	---	---	---		B/CA/---
QS-217	R	2.750	2.125	1SS	2.500	0.500		B/CA/SS
QS-674	T	2.375	2.875	1C	2.500	0.500		B/CA/CE
QS-675	T	2.375	2.875	1SS	2.500	0.500		B/CA/SS
QS-2144	T	2.375	2.750	3C	2.500	0.500		B/CA/CE
QS-1067AN	T	2.375	2.875	3SS	2.500	0.500		N/CA/SS
QS-3095AN	T	2.375	1.750	2SS	2.573	0.437		N/CA/SS
QS-3111A	T	2.375	1.750	1C	2.500	0.500		B/CA/CE
QS-3115	T	2.375	2.875	3C	2.500	0.500		B/CA/CE
QS-3123V	T	2.375	2.937	3SC	2.500	0.500	++	V/SC/SC/SC /SC
QS-3208A	T	2.375	2.500	3SS	2.500	0.500		B/CA/SS
QS-3255AN	T	2.375	2.875	---	---	---		N/CA/---
QS-3260AN	T	2.375	3.750	---	---	---		N/CA/---
QS-3650V	T	2.375	2.875	3SC	2.500	0.500		V/SC/SC
QS-4249A	T	2.375	2.250	1C	2.500	0.500		B/CA/CE
QS-4263V	T	2.375	2.875	3C	2.500	0.500		V/CA/CE
QS-4405V	T	2.375	2.937	3SC 3CE	2.500	0.500		V/CA/SC/CA /CE
QS-6242V	T	2.375	2.281	3C	2.500	0.500		V/CA/CE
QS-455	T/U	2.375	3.125	1C	2.500	0.500		B/CA/CE

NOTE: ++ - SLOTTED SEAT



Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.750 (1-3/4") (continued)</b>								
QS-1198	T/U	2.375	3.125	1C	2.500	0.500		B/CA/CE
QS-519	U	2.375	2.500	3C	2.500	0.500		B/CA/CE
QS-519-HC	U	2.375	2.500	3C	2.500	0.500	HC	B/CA/CE
QS-555SS	U	2.375	2.500	2SS	2.500	0.500		B/CA/SS
QS-917	U	2.375	2.437	3C	2.500	0.500		B/CA/CE
QS-1042	U	2.375	2.500	1C	2.500	0.500		B/CA/CE
QS-1070	U	2.375	2.500	3C	2.375	0.500		B/CA/CE
QS-1199	U	2.375	2.500	3SS	2.500	0.500	++	B/CA/SS
QS-2157	U	2.375	2.000	3SS	2.500	0.500	++	B/CA/SS
QS-2170	U	2.375	2.000	3C	2.500	0.500		B/CA/CE
QS-3520E HC	U	2.375	2.000	3TC	2.500	0.500	HC	E/CA/TC
QS-3884V	U	2.375	2.500	1TC	2.500	0.500		V/CA/TC
QS-4390A	U	2.375	2.000	1C	2.500	0.500		B/CA/CE
QS-5681A	U	2.375	2.000	2SS	2.500	0.468		B/CA/SS
QS-5681AV	U	2.375	2.000	2SS	2.500	0.468		V/CA/SS
QS-5682A	U	2.375	2.000	2SS	2.375	0.468		B/CA/SS
QS-5685A	U	2.375	2.000	2SS	2.500	0.468		B/CA/SS
QS-7090	U	2.375	2.000	3SS	2.500	0.500	++	B/CA/SS
QS-4488	UB	2.375	2.375	3TC	2.375	0.500		B/CA/TC
QS-3754	V	2.437	2.250	3C	2.750	0.625		B/CA/CE
QS-9106	T9	2.500	1.375	2C	2.500	0.500	316SS	CA/CE
QS-9023	T9T	2.312	1.375	3C	2.500	0.500	316SS	CA/CE
QS-9064V	T9T	2.312	1.375	3TC	2.500	0.500	316SS	CA/TC
QS-9316	T9T	2.406	1.375	---	---	---	316SS	CA/---
QS-9400	T9T	2.312	1.375	---	---	---	316SS	CA/---
QS-8058V	T8-1	2.500	1.375	3SC	2.500	0.500	316SS	V/CA/SC
QS-8133V	T8-1	2.500	1.375	3SC	2.500	0.500	316SS	V/TC/SC
QS-8125 KA	T8B1	2.312	1.750	5TC	2.125	0.500	316SS	V/CA/TC
QS-8000	T8B1T	2.312	1.750	---	---	---	316SS	V/CA/---
QS-8063V	T81T	2.312	1.375	3TC	2.500	0.500	316SS	V/CA/TC
QS-26166AV	Z	SP	2.250	1C	2.500	0.500		V/CA/CE
<b>1.760 SHAFT</b>								
QS-3285A	E	2.375	1.500	---	---	---		B/CA/---
<b>1.771 (45MM) SHAFT</b>								
QS-45BDC	E	2.375	2.000	1C	2.500	0.500		B/CA/CE

NOTE: HC - HARD CARBON  
++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.771 (45MM) (continued)</b>								
QS-719	E	2.500	2.125	1SS	2.625	0.500		B/CA/SS
QS-722	E	2.500	2.125	1C	2.625	0.500		B/CA/CE
QS-3285A	E	2.375	1.500	---	---	---		B/CA/C/---
QS-3158V	G	2.401	30MM	25SC	63MM	8MM		V/SC/SC
QS-6916V	G	2.401	37MM	1SC	63MM	8MM	316SS	V/SC/SC
QS-727	T	2.500	3.000	1C	2.625	0.500		B/CA/CE
QS-728	T	2.500	3.000	1SS	2.625	0.500		B/CA/SS
QS-1057A	T	2.375	2.875	3SS	2.625	0.500		B/CA/SS
<b>1.812 (46MM) SHAFT</b>								
QS-3291A	D	2.875	0.950	3SS	2.750	0.500		B/CA/SS
QS-3245A	E	2.500	1.375	3SS	2.437	0.500		B/CA/SS
QS-3290A	E	2.500	1.200	2SS	2.812	0.375		B/CA/SS
QS-3295A	E	2.500	1.750	2B	2.750	0.562		B/CA/BR
QS-3300AN	E	2.500	2.000	---	---	---		N/CA/---
QS-3297AV	Z	2.875	0.900	SEAT UNITIZED WITH SEAL				V/CA/CE
QS-3298AV	Z	2.875	0.900	SEAT UNITIZED WITH SEAL				V/CA/SS
<b>1.844 SHAFT</b>								
QS-3305AN	C	2.750	2.250	2SS	2.750	0.500		N/CA/SS
<b>1.875 (1-7/8") SHAFT</b>								
QS-312	C	2.750	1.500	3SS	2.625	0.500	++	B/CA/SS
QS-312V	C	2.750	1.500	3SS	2.625	0.500	++	V/CA/SS
QS-340	C	2.750	1.500	1C	2.625	0.500	++	B/CA/CE
QS-340-E	C	2.750	1.500	1C	2.625	0.500	++	E/CA/CE
QS-340-E-CATC	C	2.750	1.500	1TC	2.625	0.500	++	E/CA/TC
QS-340-HC	C	2.750	1.500	1C	2.625	0.500	HC/++	B/CA/CE
QS-340-TC-SC	C	2.750	1.500	1SC	2.625	0.500	++	B/TC/SC
QS-340-TC-TC	C	2.750	1.500	1TC	2.625	0.500	++	B/TC/TC
QS-340V	C	2.750	1.500	3C	2.625	0.500		V/CA/CE
QS-340V-HC	C	2.750	1.500	1C	2.625	0.500	HC	V/CA/CE
QS-340V-TC-SC	C	2.750	1.500	1SC	2.625	0.500		V/TC/SC
QS-1608	C	2.750	1.500	1SS	2.625	0.500		B/CA/SS
QS-1608V	C	2.750	1.500	1SS	2.625	0.500		V/CA/SS
QS-2114	C	2.750	1.500	3C	2.625	0.500		B/CA/CE
QS-2729	C	2.750	1.500	3SC	2.625	0.500		B/SC/SC
QS-3211	C	2.750	2.125	1C	2.625	0.500		B/CA/CE
QS-3269BLS	C	2.750	---	1SS	2.500	0.500		B/CA/SS

NOTE: HC - HARD CARBON  
++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.875 (1-7/8") (continued)</b>								
QS-3310A	C	2.750	1.500	---	---	---		B/CA/---
QS-3335AN	C	2.750	2.125	2BR	2.750	0.562		N/CA/BR
QS-3352AV	C	2.750	0.800	3SS	2.453	0.312		V/CA/SS
QS-3353A	C	2.750	0.800	3SS	2.453	0.312		B/CA/SS
QS-3356A	C	2.750	1.000	8SS	3.528	0.437		B/CA/SS
QS-3360AN	C	2.750	1.500	---	---	---		N/CA/---
QS-3365A	C	2.750	0.950	---	---	---		B/CA/---
QS-3370AN	C	2.750	1.625	51	---	PLT		N/CA/PLT
QS-4219V	C	2.921	0.688	3SS	2.431	0.312		V/CA/SS
QS-4645A	C	2.750	1.000	2BR	3.000	0.437		B/CA/BR
QS-4485A	C	2.750	1.750	1C	2.625	0.578		B/CA/CE
QS-4885E HC	C	2.750	1.500	1C	2.625	0.500	HC	E/CA/CE
QS-5011	C	2.561	1.000	PLATE	3.528	0.437		B/CA/SS
QS-5342	C	2.645	1.110	2C	3.000	0.404		B/CA/CE
QS-5679E	C	2.645	1.110	2C	3.000	0.404		E/CA/CE
QS-5712	C	2.645	1.125	2SS	3.000	0.474		B/CA/SS
QS-5717V	C	2.645	1.110	2C	3.000	0.404		V/CA/CE
QS-5721V	C	2.561	1.000	PLATE	PLATE	PLATE		V/CA/PLT/S S
QS-6098V	C	2.645	1.000	3 Special	2.625	0.500	++	V/CA/SS
QS-7935AN	C	2.750	1.750	51	---	PLT		N/CA/PLT
QS-1875V-C	C	2.750	1.500	---	---	---		V/CA/---
QS-223	D	2.875	1.500	---	---	---		
QS-593	D	2.875	1.500	3SS	2.625	0.500	++	B/CA/SS
QS-828	D	2.875	1.500	1C	2.625	0.500		B/CA/CE
QS-1097	D	2.875	1.500	1SS	2.625	0.500		B/CA/SS
QS-1620	D	2.875	1.500	3C	2.625	0.500		B/CA/CE
QS-2065	D	2.875	1.500	1C	2.625	0.500		B/CA/CE
QS-2066	D	2.875	1.500	1SS	2.625	0.500		B/CA/SS
QS-2067	D	2.875	1.500	3C	2.625	0.500		B/CA/SS
QS-2068	D	2.875	1.500	3SS	2.625	0.500		B/CA/SS
QS-4107	D	2.875	1.500	3SC	2.625	0.500	++	B/CA/SC
QS-4333	D	2.875	1.500	3C	2.625	0.500	++	B/CA/CE
QS-6094V	D	2.875	1.500	3SS	2.625	0.500	++	V/CA/SS
QS-46512	D	2.875	---	SP	SP	---		B/CA
QS-3070	DB	2.875	1.875	3C	2.500	0.500	++	B/CA/CE
QS-3818	DB	2.875	1.875	1TC	2.500	0.500		B/CA/TC
QS-4486	DB	2.875	1.875	3C	2.500	0.500		B/CA/CE
QS-4563V	DB	2.875	1.875	3TC	2.500	0.500	++316SS	V/CA/TC
QS-513	E	2.500	2.125	1SS	2.625	0.500		B/CA/SS
QS-523	E	2.500	2.125	1C	2.625	0.500		B/CA/CE
QS-586	E	2.500	2.125	3SS	2.625	0.500		B/CA/SS
QS-586-SC-SC	E	2.500	2.125	3SC	2.625	0.500		B/SC/SC

NOTE:      HC      - HARD CARBON  
              PLT      - PLATE SEAT  
              ++      - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.875 (1-7/8") (continued)</b>								
QS-586-CASC	E	2.500	2.125	3SC	2.625	0.500		B/CA/SC
QS-586 TCTC	E	2.500	2.125	3TC	2.625	0.500		B/TC/TC
QS-586V-SC-TC	E	2.500	2.125	3TC	2.625	0.500		V/SC/TC
QS-829	E	2.500	2.437	3C	2.687	0.500		B/CA/CE
QS-831	E	2.500	2.437	3SS	2.687	0.500		B/CA/CE
QS-946	E	2.500	2.437	3C	2.687	0.500		B/CA/CE
QS-949	E	2.500	2.437	3SS	2.687	0.500		B/CA/SS
QS-1654	E	2.500	2.125	3C	2.625	0.500		B/CA/CE
QS-1655	E	2.500	2.125	3TC	2.625	0.500		B/CA/TC
QS-1656	E	2.500	2.125	3C	2.625	0.500		B/CA/CE
QS-1657	E	2.500	2.125	3SS	2.625	0.500		B/CA/SS
QS-1658	E	2.500	2.125	3TC	2.625	0.500		B/CA/TC
QS-1659V	E	2.500	2.062	3C	2.625	0.500		V/CA/CE
QS-1659V	E	2.500	2.125	1C	2.625	0.500		V/CA/CE
QS-1660V	E	2.500	2.062	3SS	2.625	0.500		V/CA/SS
QS-1661V	E	2.500	2.062	3TC	2.625	0.500		V/CA/TC
QS-1662	E	2.500	2.125	3C	2.687	0.500		B/CA/CE
QS-1663	E	2.500	2.125	3SS	2.687	0.500		B/CA/SS
QS-1664	E	2.500	2.125	3C	2.687	0.500		B/CA/CE
QS-1665	E	2.500	2.125	3SS	2.687	0.500		B/CA/SS
QS-1669V	E	2.500	2.125	3TC	2.687	0.500		V/CA/TC
QS-1672V	E	2.500	2.125	3TC	2.687	0.500		V/CA/TC
QS-1845VX	E	2.500	2.125	3C	2.687	0.500		V/CA/CE
QS-2069	E	2.500	2.125	1C	2.625	0.500		B/CA/CE
QS-2069-CATC	E	2.500	2.125	1TC	2.625	0.500		B/CA/TC
QS-2070	E	2.500	2.125	1SS	2.625	0.500		B/CA/SS
QS-2071	E	2.500	2.125	3C	2.625	0.500		B/CA/CE
QS-2072	E	2.500	2.125	3SS	2.625	0.500		B/CA/SS
QS-2072-TC-TC	E	2.500	2.125	3TC	2.625	0.500		B/TC/TC
QS-2110	E	2.500	2.125	---	---	---		B/CA/---
QS-3046E	E	2.500	1.531	3C	2.625	0.500	++	E/CA/CE
QS-3049E	E	2.500	1.531	3SC	2.625	0.500	++	E/TC/SC
QS-3315A	E	2.500	1.750	1C	2.625	0.579		B/CA/CE
QS-3322AN	E	2.500	1.625	---	---	---		N/CA/---
QS-3929V	E	2.500	1.906	3C	2.625	0.500	LC	V/CA/CE
QS-4025A	E	2.500	2.125	1SS	2.625	0.453		B/CA/SS
QS-4105A	E	2.500	1.500	1C	2.625	0.578		B/CA/CE
QS-4166V	E	2.500	1.531	3TC	2.625	0.500		V/TC/TC
QS-4193V	E	2.500	1.531	3TC	2.625	0.500		V/CA/TC
QS-4270	E	2.500	2.125	3SC	2.625	0.500		B/SC/SC
QS-4477AF HC	E	2.500	1.906	3TC	2.625	0.500	HC	AF/CA/TC
QS-4595AN	E	2.500	1.625	2SS	2.625	0.437		N/CA/SS
QS-6865A	E	2.500	1.500	2SS	2.625	0.469		B/CA/SS
QS-7020V	E	2.500	2.125	3C	2.687	0.500		V/CA/CE
QS-7559	E	2.500	1.906	3C	2.625	0.500	LC/++	BCFJF
QS-7698V	E	2.500	1.906	3SS	2.500	0.500	LC/++	VCFKF
QS-7869E HC	E	2.500	2.125	1TC	2.625	0.500	HC	E/CA/TC
QS-7898	E	2.500	2.125	3SS	2.625	0.500		B/CA/SS
QS-7951E HC	E	2.500	2.125	3TC	2.625	0.500	HC	E/CA/TC

NOTE: HC - HARD CARBON  
LC - LOCK COLLAR  
++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.875 (1-7/8") (continued)</b>								
QS-7962	E	2.500	2.125	3SS	2.625	0.500		B/CA/SS
QS-8020A	E	2.500	1.500	2SS	2.625	0.469		B/CA/SS
QS-513V-1875	E	2.500	2.125	---	---	---		V/CA/---
QS-4193-1875	E	2.500	1.531	---	---	---		V/CA/---
QS-50089	E/SP	2.500	2.125	3TC	2.625	0.500		B/CA/TC
QS-3648V	EB	2.500	2.500	Special TC	2.687	0.500		V/CA/TC
QS-4417V	EB	2.500	2.500	3C	2.500	0.500		V/CA/CE
QS-7827	EB	2.500	2.500	3C	2.500	0.500		B/CA/CE
QS-7884	EB	2.500	2.500	3SS	2.500	0.500	++	B/CA/SS
QS-7884V	EB	2.500	2.500	3SS	2.500	0.500	++	V/CA/SS
QS-3018	G	2.520	1.181	1SC	2.625	0.500		B/SC/SC
QS-318	K	2.750	2.125	1C	2.625	0.500		B/CA/CE
QS-318-TC-TC	K	2.750	3.000	1TC	2.625	0.500		B/TC/TC
QS-1693	K	2.750	2.125	1SS	2.625	0.500		B/CA/SS
QS-2237	K	2.750	1.750	1C	2.625	0.500		B/CA/CE
QS-3190	K	2.750	1.750	1TC	2.625	0.500		B/CA/TC/CA/TC
QS-3753	K	2.734	1.750	1SC 1CE	2.625	0.500		B/CA/SC/SC/CE
QS-4217	K	2.750	1.843	1TC 1CE	2.625	0.500		B/CA/TC/TC/CE
QS-4426	K	2.750	1.750	1TC 1CE	2.625	0.500		B/CA/TC/SC/CE
QS-7352	K	2.750	2.125	1SS	2.625	0.500		B/CA/SS
QS-4787A	L-1	2.562	1.150	25CA	2.625	0.500		B/SS/CA
QS-4790A	L-2	2.562	1.750	25CA	2.625	0.500		B/SS/CA
QS-4790AV	L-2	2.562	1.750	25CA	2.625	0.500		V/SS/CA
QS-7940AN	L-2	2.500	2.625	51	2.871	PLT		N/CA/PLT
QS-742	T	2.500	3.000	1C	2.625	0.500		B/CA/CE
QS-743	T	2.500	3.000	1SS	2.625	0.500		B/CA/SS
QS-1653	T	2.500	3.000	3C	2.687	0.500		V/CA/CE
QS-2087A	T	2.500	3.000	1C	2.625	0.578		B/CA/CE
QS-3203	T	2.500	2.937	3TC 3CE	2.625	0.500		B/SC/TC/CA/CE
QS-3320AN	T	2.500	1.187	---	---	---		N/CA/---
QS-3321AN	T	2.500	1.187	8SS	2.625	0.312		N/CA/SS
QS-3964	T	2.500	2.500	3C	2.625	0.437		B/CA/CE

NOTE: PLT - PLATE SEAT  
++ - SLOTTED SEAT



Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>1.875 (1-7/8") (continued)</b>								
QS-3979A	T	2.500	1.187	2SS	2.875	0.437		B/CA/CE
QS-4046	T	2.500	2.343	25C	2.650	0.406		B/CA/CE
QS-4487A	T	2.500	1.187	1C	2.625	0.578		B/CA/CE
QS-4521V	T	2.500	2.500	3SS	2.625	0.437		V/CA/SS
QS-4780AN	T	2.500	2.250	1SS	2.625	0.453		N/CA/SS
QS-4805AN	T	2.500	3.000	2SS	2.625	0.469		N/CA/SS
QS-5087	T	2.500	2.500	3TC	2.625	0.437		B/TC/TC
QS-7878	T	2.500	3.000	1C	2.625	0.500		B/CA/CE
QS-538	U	2.500	2.437	1C	2.625	0.500		B/CA/CE
QS-538S	U	2.500	---	2SS	2.625	---		B/CA/SS
QS-554	U	2.500	2.437	3SS	2.500	0.500		B/CA/SS
QS-898	U	2.500	2.437	3C	2.500	0.500		B/CA/CE
QS-4592V	U	2.500	2.125	5TC	2.500	0.500		V/CA/TC
QS-1105	V	2.500	2.000	25C	2.640	0.406		B/CA/CE
QS-1108	V	2.500	2.000	1C	2.625	0.500		B/CA/CE
QS-2146	V	2.500	2.000	3C	2.625	0.437		B/CA/CE
QS-4467	V	2.437	2.000	3C	2.625	0.437		B/CA/CE
QS-21456	V	2.500	2.000	3C	2.625	0.437		B/CA/CE
QS-9119E	T9T	2.510	1.375	3TC	2.625	0.500	316SS	E/CA/TC
QS-9340V	T9T	2.510	1.375	3TC	2.625	0.500	316SS	CA/TC
QS-9709V	T9T	2.510	1.375	3C	2.625	0.500	316SS	CA/CE
QS-8010V	T8B1	2.500	1.750	3TC	2.375	0.500	316SS	V/CA/TC
QS-8124E	T8B1	2.625	1.750	3SC	2.375	0.500	316SS	E/CA/SC
QS-8059E	T8B1T	2.510	1.750	3TC	2.375	0.500	316SS	E/CA/TC
QS-6097N	T Special 8-1	2.500	1.000	3 Special	2.625	0.500	316SS	N/CA/TC
QS-8077V	T Special 8-1	2.500	1.500	3C	2.000	0.500	316SS	V/CA/CE
QS-8076V	T81T	2.510	1.750	3C	2.625	0.437	316SS	V/CA/CE
QS-8094V	T81T	2.510	1.375	3TC	2.625	0.500	316SS	V/CA/TC
<b>1.937 SHAFT</b>								
QS-3380AV	C	2.750	1.500	2SS	3.000	0.375		V/CA/SS
QS-3970A	C	2.750	1.250	3SS	2.750	0.500		B/CA/SS
QS-3385AN	L-1	2.562	1.875	---	---	---		N/CA/---
QS-3375AN	L-2	2.562	1.250	---	---	---		N/CA/---
QS-3390AN	L-2	2.562	3.750	---	---	---		N/CA/---
<b>2.000 (2") SHAFT</b>								
QS-267	C	2.875	1.500	1C	2.750	0.500		B/CA/CE
QS-267-E	C	2.875	1.500	1C	2.750	0.500		E/CA/CE

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>2.000 (2") (continued)</b>								
QS-267-HC	C	2.875	1.500	1C	2.750	0.500	HC	B/CA/CE
QS-267-SC-SC	C	2.875	1.500	1SC	2.750	0.500		B/SC/SC
QS-267-SC-TC	C	2.875	1.500	3TC	2.750	0.500	LC	B/SC/TC
QS-267-SC-TC	C	2.875	1.500	3TC	2.750	0.500		B/SC/TC
QS-267-CATC	C	2.875	1.500	3TC	2.750	0.500		B/CA/TC
QS-267V	C	2.875	1.500	3C	2.750	0.500	++	V/CA/CE
QS-267V-HC	C	2.875	1.500	1C	2.750	0.500	HC	B/CA/CE
QS-267V-SC-SC	C	2.875	1.500	3SC	2.750	0.500	++	V/SC/SC
QS-267V-SC-TC	C	2.875	1.500	1TC	2.750	0.500	++/LC	V/SC/TC
QS-267V-CATC	C	2.875	1.500	3TC	2.750	0.500	++	V/CA/TC
QS-332	C	2.875	1.500	3SS	2.750	0.500	++	B/CA/SS
QS-435	C	2.875	1.218	17CS	2.750	0.812		B/CA/CE/SS
QS-532	C	2.875	1.500	3C	2.750	0.500	++	B/CA/CE
QS-576	C	2.875	1.231	2SS	3.060	0.250		B/CA/SS
QS-582	C	2.875	1.125	3SS	3.000	0.500		B/CA/SS
QS-842	C	2.875	1.500	1SS	2.750	0.500		B/CA/SS
QS-842-HC	C	2.875	1.500	1SS	2.750	0.500	HC	B/CA/SS
QS-842-CATC	C	2.875	1.500	1TC	2.750	0.500		B/CA/TC
QS-842V	C	2.875	1.500	1SS	2.750	0.500		V/CA/SS
QS-842V-HC	C	2.875	1.500	1SS	2.750	0.500	HC	V/CA/SS
QS-1017	C	2.875	2.125	1SS	2.750	0.500	++	B/CA/SS
QS-1017-CATC	C	2.875	2.125	3TC	2.750	0.500		B/CA/TC
QS-1020	C	2.875	1.500	3SS	3.000	0.500		B/CA/SS
QS-1020-E-HC	C	2.875	1.500	3SS	3.000	0.500	HC	E/CA/SS
QS-1020V	C	2.875	1.500	3SS	3.000	0.500		V/CA/SS
QS-1022AN	C	2.875	1.750	51	---	PLT		N/CA/PLT
QS-1024AN	C	2.875	1.750	52	2.937	0.437		N/CA/PLT
QS-1028	C	2.875	1.250	1SS	2.750	0.500		B/CA/SS
QS-1029AN	C	2.875	3.000	51	3.750	PLT		N/CA/PLT
QS-1037	C	2.875	1.500	28S	4.330	1.060		B/CA/SS
QS-1037V	C	2.875	1.500	28S	4.330	1.060		V/CA/SS
QS-1145V	C	2.875	1.500	3SS	2.750	0.500		V/CA/SS
QS-2111	C	2.875	1.500	---	---	---		B/CA/---
QS-2133	C	2.875	2.125	1C	2.750	0.500		B/CA/CE
QS-2133-HC	C	2.875	2.125	1C	2.750	0.500	HC	B/CA/CE
QS-2139	C	2.875	1.250	1C	2.750	0.500		B/CA/CE
QS-2219 TCTC	C	2.875	1.500	1TC	2.750	0.500		B/TC/TC
QS-3027E	C	2.875	1.500	3TC	3.000	0.500		E/CA/TC
QS-3415AN	C	2.875	1.500	51	4.005	PLT		N/CA/PLT
QS-3420AN	C	2.875	1.500	---	---	---		N/CA/---
QS-3425AN	C	2.875	2.500	2SS	2.875	0.500		N/CA/SS
QS-3426AN	C	2.875	1.125	2SS	2.937	0.500		N/CA/SS
QS-3445AN	C	2.875	3.000	51	3.750	PLT		N/CA/PLT
QS-3460AN	C	2.875	1.750	51	---	PLT		N/CA/PLT
QS-3470A	C	2.875	1.500	3SS	2.625	0.562		B/CA/SS
QS-3470AV	C	2.875	1.500	3SS	2.625	0.562		V/CA/SS
QS-3475AN	C	2.875	1.250	51/2S	3.437	PLT		N/CA/PLT
QS-3480A	C	2.875	1.125	3SS	3.000	0.359		B/CA/SS

NOTE: HC - HARD CARBON  
LC - LOCK COLLAR  
PLT - PLATE SEAT  
++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>2.000 (2") (continued)</b>								
QS-3480AV	C	2.875	1.125	3SS	3.000	0.359		V/CA/SS
QS-3485AN	C	2.875	3.375	5I	4.219	PLT		N/CA/PLT
QS-3580E HC	C	2.875	1.500	1TC	2.750	0.500	HC	E/CA/TC
QS-3674E HC	C	2.875	2.125	1SS	2.750	0.500	HC	E/CA/SS
QS-3676	C	2.875	1.250	1TC	2.750	0.500		B/TC/TC
QS-3688	C	2.875	1.062	3TC	2.750	0.500		B/TC/TC
QS-3716V	C	2.875	1.500	1SC	2.750	0.500		V/CA/SC
QS-3721	C	2.875	1.062	3TC	2.750	0.500	++	B/SC/TC
QS-3875	C	2.875	1.250	3SS	2.750	0.500	++	B/CA/SS
QS-3990	C	2.875	1.500	1C	2.750	0.437		B/CA/CE
QS-3993	C	2.875	1.062	3C	2.750	0.500	++	B/CA/CE
QS-3995A	C	2.875	2.125	1C	2.750	0.437		B/CA/CE
QS-4015	C	2.875	1.062	3SS	2.750	0.500	++	B/CA/SS
QS-4080A	C	2.875	2.125	1C	2.687	0.469		B/CA/CE
QS-4120V	C	2.875	1.500	1SS	2.750	0.500	316SS	V/CA/SS
QS-4178V	C	2.875	1.062	3SC	2.750	0.500		V/SC/SC
QS-4185A	C	2.875	1.250	3SS	2.750	0.794		B/CA/SS
QS-4187A	C	2.875	1.500	3SS	2.750	0.625		B/CA/SS
QS-4235	C	2.875	1.500	3SC	2.750	0.500		B/CA/SC
QS-4239	C	2.875	1.062	3C	2.750	0.500	++	B/CA/CE
QS-4255AN	C	2.875	1.500	3SS	2.750	0.497		N/CA/SS
QS-4287E HC	C	2.875	1.500	3C	3.000	0.500	HC	E/CA/CE
QS-4345 HC	C	2.875	1.500	3C	3.000	0.500	HC	B/CA/CE
QS-4416	C	2.875	1.250	3C	2.750	0.500		B/CA/CE
QS-5224	C	2.598	1.500	1C	2.750	0.500		B/CA/CE
QS-6085AN	C	2.875	1.750	2SS	2.875	0.406		N/CA/SS
QS-6155AN	C	2.875	1.500	5I	4.312	PLT		N/CA/PLT
QS-6165AN	C	2.875	2.125	5I	4.312	PLT		N/CA/PLT
QS-6213V	C	2.875	1.500	1TC	2.750	0.500	316SS	V/TC/TC
QS-6218V	C	2.875	1.500	1TC	2.750	0.500		V/TC/TC
QS-6224V	C	2.875	1.500	1SC	2.750	0.500		V/SC/SC
QS-6238	C	2.875	1.062	3SC	2.750	0.500		B/SC/SC
QS-6247V	C	2.875	1.062	3SS	2.750	0.500		V/A/SS
QS-6695AN	C	2.875	1.500	2SS	2.875	0.500		N/CA/SS
QS-7100A	C	2.875	1.500	1C	2.750	0.438		B/CA/CE
QS-7105A	C	2.875	1.750	2SS	2.875	0.406		B/CA/SS
QS-7309E	C	2.875	1.500	3TC	2.750	0.500	++	E/CA/TC
QS-7731V	C	2.875	1.500	3SC	2.750	0.500		V/SC/SC
QS-7781	C	2.875	1.062	1C	2.750	0.500		B/CA/CE
QS-7781-SC-TC	C	2.875	1.062	1TC	2.750	0.500		B/SC/TC
QS-8315A	C	2.875	1.750	2SS	2.937	0.500		B/CA/SS
QS-193	D	3.000	1.500	3SS	2.750	0.500	++	B/CA/SS
QS-196	D	3.000	1.500	---	---	---		B/CA/---
QS-333	D	3.000	1.500	3SS	2.812	0.500		B/CA/SS
QS-445	D	3.000	1.500	1C	2.750	0.500		B/CA/CE
QS-445V	D	3.000	1.500	3C	2.750	0.500		V/CA/CE

NOTE:      HC      - HARD CARBON  
              PLT      - PLATE SEAT  
              ++      - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>2.000 (2") (continued)</b>								
QS-462	D	3.000	1.500	1SS	2.750	0.500		B/CA/SS
QS-462V	D	3.000	1.500	3SS	2.750	0.500	++	V/CA/SS
QS-832	D	3.000	1.500	3SS	2.750	0.500	++	B/CA/SS
QS-833	D	3.000	1.500	3C	2.750	0.500	++	B/CA/CE
QS-876	D	3.000	1.500	1SS	2.625	0.500		B/CA/SS
QS-1134	D	3.000	1.500	3SS	2.750	0.500		B/CA/SS
QS-2073	D	3.000	1.500	1C	2.750	0.500		B/CA/CE
QS-2073V-SC-TC	D	3.000	1.500	1TC	2.750	0.500		V/SC/TC
QS-2074	D	3.000	1.500	1SS	2.750	0.500		B/CA/SS
QS-2075	D	3.000	1.500	3C	2.750	0.500	++	B/CA/CE
QS-2076	D	3.000	1.500	3SS	2.750	0.500	++	B/CA/SS
QS-3066V	D	3.000	1.500	1SC	2.750	0.500		V/SC/SC
QS-3142V	D	3.000	1.500	3SC	2.750	0.500	++316SS	V/TC/SC
QS-3153	D	3.000	1.500	3SC	2.750	0.500	++	B/TC/SC
QS-3898V	D	3.000	1.500	3TC	2.750	0.500		V/CA/TC
QS-4154V	D	3.000	1.500	3SS	2.750	0.500	316SS	V/CA/SS
QS-6115N	D	3.187	1.653	PLATE	5.125	---		N/CA/---
QS-319	E	2.625	2.125	1C	2.687	0.500		B/CA/CE
QS-319-HC	E	2.625	2.125	1C	2.687	0.500	HC/++	B/CA/CE
QS-319V	E	2.625	2.125	1C	2.687	0.500		V/CA/CE
QS-342	E	2.625	2.125	3SS	2.750	0.500		B/CA/SS
QS-462V	E	2.625	2.125	3SC	2.750	0.500		V/TC/SC
QS-477	E	2.625	2.125	3SS	2.750	0.500	++	B/CA/SS
QS-477-E	E	2.625	2.125	3SS	2.750	0.500	++	E/CA/SS
QS-477-E-SC	E	2.625	2.125	3SC	2.750	0.500	++	E/CA/SC
QS-477-HC	E	2.625	2.125	3SS	2.750	0.500	HC/++	B/CA/SS
QS-477-TC-SC	E	2.625	2.125	3SC	2.750	0.500	++	B/TC/SC
QS-477-CATC	E	2.625	2.125	3TC	2.750	0.500	++	B/CA/TC
QS-477-TC-TC	E	2.625	2.125	3TC	2.750	0.500	++	B/TC/TC
QS-477V	E	2.625	2.125	3SS	2.750	0.500	++	V/CA/SS
QS-477V-CATC	E	2.625	2.125	3TC	2.750	0.500	++	V/CA/TC
QS-477V-TC-TC	E	2.625	2.125	3TC	2.750	0.500	++	V/TC/TC
QS-478	E	2.625	2.125	1SS	2.687	0.500		B/CA/SS
QS-479	E	2.625	2.125	1C	2.750	0.500		B/CA/CE
QS-479-HC	E	2.625	2.125	1C	2.750	0.500	HC	B/CA/CE
QS-479-SC-TC	E	2.625	2.125	1TC	2.750	0.500		B/SC/TC
QS-479V	E	2.625	2.125	3C	2.750	0.500		V/CA/CE
QS-479V-HC	E	2.625	2.125	1C	2.750	0.500	HC	V/CA/CE
QS-479V-TC	E	2.625	2.125	1TC	2.750	0.500		V/CA/TC
QS-479V-TC-TC	E	2.625	2.125	1TC	2.750	0.500		V/TC/TC
QS-530	E	2.625	2.125	3C	2.750	0.500	++	B/CA/CE
QS-843	E	2.625	2.125	1SS	2.750	0.500		B/CA/SS
QS-843V	E	2.625	2.125	1SS	2.750	0.500		V/CA/SS
QS-1018A	E	2.625	1.500	3SS	2.750	0.500		B/CA/SS
QS-1033A	E	2.625	1.500	51	4.000	PLT		B/CA/PLT

NOTE: HC - HARD CARBON  
PLT - PLATE SEAT  
++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>2.000 (2") (continued)</b>								
QS-1033AV	E	2.625	1.500	51	4.000	PLT		V/CA/PLT
QS-1609	E	2.625	2.125	1SS	2.625	0.500		B/CA/SS
QS-1685	E	2.625	2.125	3C	2.625	0.500		B/CA/CE
QS-2077	E	2.625	2.125	1C	2.750	0.500		B/CA/CE
QS-2078	E	2.625	2.125	1SS	2.750	0.500		B/CA/SS
QS-2079	E	2.625	2.125	3SS	2.750	0.500		B/CA/SS
QS-2112	E	2.625	2.125	---	---	---		B/CA/---
QS-3079V HC	E	2.625	2.125	3SS	2.750	0.500	HC/++	V/CA/SS
QS-3108E HC	E	2.625	2.125	TC5	2.750	0.500	HC	E/CA/TC
QS-3522 HC	E	2.625	2.125	3SS	2.750	0.500	HC	B/CA/SS
QS-3639E	E	2.625	2.125	3TC	2.750	0.500	++	E/CA/TC
QS-3708 HC	E	2.625	2.125	5TC	2.750	0.500	HC	B/CA/TC
QS-3708V CATC	E	2.625	2.125	5TC	2.750	0.500		V/CA/TC
QS-3999V	E	2.625	2.125	3TC	2.750	0.500		V/CA/TC
QS-4312	E	2.625	2.125	3SS	3.000	0.500		B/CA/SS
QS-4376E	E	2.625	2.125	3C	2.750	0.500		E/CA/CE
QS-4432	E	2.625	2.125	3SC	2.750	0.500		B/SC/SC
QS-4600	E	2.625	2.125	3TC	2.750	0.500		B/TC/TC
QS-5265A	E	2.625	2.500	1SS	2.750	0.440		B/CA/SS
FA-6104N	E	2.730	2.165	---	---	---		N/CA/---
QS-3644N	E Special	2.625	1.843	3SS	2.750	0.500	++	N/CA/SS
QS-3952N	E Special	2.625	1.843	3SS	3.031	0.500	INCLUDE SLEEVE	N/CA/SS
QS-6007N	E Special	2.730	2.165	PLATE	5.875	0.750		N/CA/PLT
QS-3088 HC	EB	2.625	2.500	3TC	2.500	0.500	HC/++	E/CA/TC
QS-3304	EB	2.625	2.500	3CE	2.625	0.500	++	B/CA/CE
QS-4102V	EB	2.625	2.500	3TC	2.625	0.500		V/CA/TC
QS-4291	EB	2.625	2.500	3TC	2.625	0.500		B/CA/TC
QS-4419V	EB	2.625	2.500	3C	2.625	0.500		V/CA/CE
QS-7890V	EB	2.625	2.500	3SS	2.625	0.500	++	V/CA/SS
QS-7892	EB	2.625	2.500	3SS	2.625	0.500	++	B/CA/SS
QS-7910	EB	2.625	2.500	1C	2.625	0.500		B/CA/CE
QS-3019E	G	2.598	1.500	25SC	2.750	0.500	316SS	E/SC/SC
QS-3170V	G	2.598	1.500	25SC	2.750	0.500	316SS	V/CA/SC
QS-4357E	G	2.598	1.500	25SC	2.750	0.500		E/CA/SC
QS-1040	K	2.625	2.125	3SS	2.750	0.500	++	B/CA/SS
QS-1265A	K	2.625	2.125	2SS	2.750	0.500		B/CA/SS
QS-1266A	K	2.625	2.125	3C	2.750	0.500		B/CA/CE
QS-2143	K	2.625	2.125	1C	2.750	0.500		B/CA/CE
QS-3254V	K	2.875	2.125	3TC	2.750	0.500	316SS	V/TC/TC
QS-3465A	K	2.625	2.125	2SS	2.937	0.437		B/CA/SS

NOTE:      HC      - HARD CARBON  
              PLT      - PLATE SEAT  
              ++      - SLOTTED SEAT



Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>2.000 (2") (continued)</b>								
QS-4294	K	2.875	1.500	1SC 1TC	2.750	0.500		B/CA/SC/CA/TC
QS-4343	K	2.859	2.125	1TC 3CE	2.750	0.500		B/CA/TC/CA/CE
QS-4478	K	2.859	1.875	1C	2.750	0.500		B/CA/CE
QS-4853AN	K	2.625	2.125	3SS	2.875	0.500		N/CA/SS
QS-7196	K	2.875	2.125	3C	2.750	0.500	++	B/CA/CE
QS-7196V	K	2.875	2.125	3C	2.750	0.500	++	V/CA/CE
QS-7963	K	2.875	2.125	3C	3.000	0.500		B/CA/CE
QS-1951AN	L-1	2.875	2.375	---	---	---		N/CA/---
QS-3430AN	L-1	3.062	1.750	---	---	---		N/CA/---
QS-3435AN	L-1	3.062	1.750	---	---	---		N/CA/---
QS-6635AN	L-1	2.625	2.375	---	---	---		N/CA/---
QS-3406AN	L-2	2.625	2.000	---	---	---		N/CA/---
QS-8025AN	L-2	2.625	2.750	---	---	---		N/CA/---
QS-658	R	3.000	2.125	1SS	2.750	0.500		B/CA/SS
QS-1610	R	3.000	2.125	1C	2.750	0.500		B/CA/CE
QS-4052	Special	2.750	0.750	Special	2.750	0.375		B/A/CE
QS-3413A	T	2.598	1.875	1C	2.750	0.500		B/CA/CE
QS-4208V	T	2.625	3.000	3TC 3TC	2.750	0.500	++	V/CA/TC/C A/TC
QS-385	U	2.625	2.500	3SS	2.750	0.500	++	B/CA/SS
QS-385A	U	2.625	2.000	3SS	2.750	0.500	++	B/CA/SS
QS-385V	U	2.625	2.000	3SS	2.750	0.500		V/CA/SS
QS-386	U	2.625	2.500	3SS	2.812	0.500		B/CA/SS
QS-456	U	2.625	2.218	3SS	2.750	0.500	++	B/CA/SS
QS-456-E	U	2.625	2.218	3SS	2.750	0.500		E/CA/SS
QS-456V	U	2.625	2.218	3SS	2.750	0.500		V/CA/SS
QS-456V-SC-SC	U	2.625	2.218	3SC	2.750	0.500		V/SC/SC
QS-456V-CATC	U	2.625	2.218	3TC	2.750	0.500		V/CA/TC
QS-888	U	2.625	2.437	3C	2.625	0.500		B/CA/CE
QS-3044E	U	2.625	2.218	3SC	2.750	0.500		E/CA/SC
QS-3083V	U	2.625	2.218	3SC	2.750	0.500		V/CA/SC
QS-3591E HC	U	2.625	2.218	3TC	2.750	0.500	HC	E/CA/TC
QS-3649AF	U	2.625	2.218	3SC	2.750	0.500		AF/TC/SC
QS-3999	U	2.625	2.125	3TC	2.750	0.500	++	V/SC/TC
QS-4258	U	2.625	2.218	3SC	2.750	0.500		B/TC/SC
QS-4391V	U	2.625	2.000	3SC	2.750	0.500		V/SC/SC
QS-4468V	U	2.625	2.000	3SC	2.750	0.500		V/CA/SC

NOTE: HC - HARD CARBON  
++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>2.000 (2") (continued)</b>								
QS-4474	U	2.625	2.000	3C	2.750	0.500		B/CA/CE
QS-7400	U	2.625	2.218	3C	2.750	0.500		B/CA/CE
QS-7616V	U	2.625	2.000	3SC	2.750	0.500	++/LC	V/TC/SC
QS-9703N	T9B	2.750	1.750	Special	2.500	0.500	316SS	CA/SC
QS-9712	T9B	2.750	1.750	3SS	2.500	0.937	316SS	CA/SS
QS-8134V	T8-1	2.750	1.375	3SC	2.750	0.500	316SS	V/TC/SC
QS-8561E	T8-1	2.750	1.375	5TC	2.750	0.500	316SS	E/CA/TC
QS-8122AF	T8 B1	2.750	1.750	3SC	2.500	0.500	++316SS	AF/CA/SC
QS-8053V HC	T8 B1T	2.625	1.750	3TC	2.500	0.500	HC/++	V/CA/TC
QS-8119	T8 B1T	2.625	1.750	3C	2.500	0.500	316SS	V/CA/CE
QS-3418AV	Z	3.250	0.950	SEAT UNITIZED WITH SEAL				V/CA/CE
<b>2.062 (2-1/16") SHAFT</b>								
QS-707	E	2.812	2.375	3SS	2.875	0.562		B/CA/SS
QS-1611	E	2.812	2.375	3C	2.875	0.562		B/CA/CE
QS-3487A	E	2.812	2.375	3SS	2.875	0.562		B/CA/SS
QS-3562	T	2.812	3.375	3SS	2.937	0.562		B/CA/SS
QS-3421AV	Z	3.500	0.875	SEAT UNITIZED WITH SEAL				V/CA/CE
QS-3422AV	Z	3.500	0.875	SEAT UNITIZED WITH SEAL				V/CA/CE
<b>2.125 (2-1/8") SHAFT</b>								
QS-336	C	3.000	1.687	2SS	3.000	0.562		B/CA/SS
QS-338	C	3.000	1.687	3C	3.000	0.562	++	B/CA/CE
QS-338-E	C	3.000	1.687	3C	3.000	0.562	++	E/CA/CE
QS-338LS	C	3.000	2.375	3C	3.000	0.562	++	B/CA/CE
QS-338V	C	3.000	1.687	3C	3.000	0.562	++	V/CA/CE
QS-338V-SC-SC	C	3.000	1.687	3SC	3.000	0.562	++	V/SC/SC
QS-543	C	3.000	1.687	1SS	3.000	0.625	++	B/CA/SS
QS-543V	C	3.000	1.687	3SS	3.000	0.562	++	V/CA/SS
QS-844	C	3.000	1.687	1C	3.000	0.562	++	B/CA/CE
QS-844-HC	C	3.000	1.687	1C	3.000	0.562	HC/++	B/CA/CE
QS-854	C	3.000	1.687	3C	2.875	0.562	++	B/CA/CE
QS-855	C	3.000	1.687	3SS	2.875	0.562	++	B/CA/SS
QS-1057	C	3.000	1.687	3SS	3.000	0.562	++	B/CA/SS
QS-3495AN	C	3.000	3.000	2SS	3.000	0.500		N/CA/SS
QS-3500AN	C	3.000	2.000	2BR	3.000	0.500		N/CA/BR
QS-3505A	C	3.000	1.000	3SS	3.250	0.500		B/CA/SS
QS-3510A	C	3.000	1.000	2SS	3.000	0.375		B/CA/SS

NOTE: HC - HARD CARBON  
LC - LOCK COLLAR  
++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>2.125 (2-1/8") (continued)</b>								
QS-3510AE	C	3.000	1.000	2SS	3.000	0.375		E/CA/SS
QS-3510AV	C	3.000	1.000	2SS	3.000	0.375		V/CA/SS
QS-3520AN	C	3.000	2.125	51	3.625	PLT		N/CA/PLT
QS-3521AN	C	3.000	1.687	51	4.250	PLT		N/CA/PLT
QS-3525AN	C	3.000	1.687	51	4.250	PLT		N/CA/PLT
QS-3606V CASC	C	3.000	1.687	3SC	3.000	0.562		V/CA/SC
QS-4276V	C	3.000	2.375	3SS	3.000	0.562	++	V/CA/SS
QS-4314E	C	2.968	1.687	3TC	3.000	0.562	++	E/CA/TC
QS-4436V	C	3.000	1.687	1C	3.000	0.562		V/CA/CE
QS-4508	C	3.000	2.375	3C	3.000	0.562	++	B/CA/CE
QS-4570V	C	3.000	1.687	3SC	3.000	0.562	++	V/TC/SC
QS-5700AN	C	3.000	1.687	2SS	2.844	0.468		N/CA/SS
QS-5706V	C	2.812	1.197	2SS	3.000	0.500	316SS	V/CA/SS
QS-6110A	C	3.000	2.000	1SS	2.812	0.469		B/CA/SS
QS-6120A	C	3.000	2.000	1SS	2.812	0.469		B/CA/SS
QS-6120AV	C	3.000	2.000	1SS	2.812	0.469		V/CA/SS
FA-2120	C	3.000	1.687	---	---	---		B/CA/---
QS-1686	D	3.250	1.687	1C	3.000	0.562		B/CA/CE
QS-1687	D	3.250	1.687	1SS	3.000	0.562		B/CA/SS
QS-2087	D	3.250	1.687	1C	3.000	0.562		B/CA/CE
QS-2088	D	3.250	1.687	1SS	3.000	0.562		B/CA/SS
QS-2089	D	3.250	1.687	3C	3.000	0.562		B/CA/CE
QS-2090	D	3.250	1.687	3SS	3.000	0.562		B/CA/SS
QS-2093	D	3.250	1.687	3C	3.000	0.562	++	B/CA/CE
QS-2102	D	3.250	1.687	3SS	3.000	0.562		B/CA/SS
QS-2125	D	3.250	1.687	2SS	3.000	0.562		B/CA/SS
QS-3035E HC	D	3.250	1.687	1SC	3.000	0.562	HC	E/CA/SC
QS-3515AN	D	3.250	1.125	51	3.625	PLT		N/CA/PLT
QS-3809V	D	3.250	1.687	3TC	3.000	0.562	++	V/SC/TC
QS-4079V HC	D	3.250	1.687	3SC	3.000	0.562	HC/++	V/CA/SC
QS-4437	D	3.250	1.687	2SS	3.000	0.562		B/CA/SS
QS-327	E	2.812	2.375	3C	3.000	0.562	++	B/CA/CE
QS-327V	E	2.812	2.375	3C	3.000	0.562	++	V/CA/CE
QS-353	E	2.812	2.375	2SS	3.000	0.625		B/CA/SS
QS-353V	E	2.812	2.375	3SS	3.000	0.562		V/CA/SS
QS-537	E	2.812	2.375	1C	3.000	0.562		B/CA/CE
QS-537-HC	E	2.812	2.375	1C	3.000	0.562	HC	B/CA/CE
QS-611	E	2.812	2.375	3C	2.812	0.437		B/CA/CE
QS-611-HC	E	2.812	2.375	3C	2.812	0.437	HC	B/CA/CE
QS-612	E	2.812	2.250	3SS	2.812	0.437		B/CA/SS
QS-856	E	2.812	2.375	3C	2.875	0.562	++	B/CA/CE
QS-857	E	2.812	2.375	3SS	2.875	0.562	++	B/CA/SS
QS-857V	E	2.812	2.375	3SS	2.875	0.562	++	V/CA/SS
QS-857V-CATC	E	2.812	2.375	3TC	2.875	0.562	++	V/CA/TC
QS-1612	E	2.812	2.250	3SS	2.812	0.437		B/CA/SS

NOTE: HC - HARD CARBON  
PLT - PLATE SEAT  
++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>2.125 (2-1/8") (continued)</b>								
QS-1612V	E	2.812	2.375	3SS	2.812	0.437		V/CA/SS
QS-1617	E	2.812	2.375	3C	3.000	0.562		B/CA/CE
QS-1666	E	2.812	2.375	3SS	3.000	0.562		B/CA/SS
QS-2084	E	2.812	2.375	1C	3.000	0.562		B/CA/CE
QS-2085	E	2.812	2.375	1SS	3.000	0.562		B/CA/SS
QS-2086	E	2.812	2.375	3SS	3.000	0.562	++	B/CA/SS
QS-2159	E	2.812	2.375	1SS	3.000	0.562		B/CA/SS
QS-3122	E	2.812	2.375	3C	3.125	0.562		B/CA/CE
QS-3134E	E	2.812	2.375	3TC	3.000	0.562	++	E/CA/TC
QS-3261E HC	E	2.812	2.375	3SC	3.000	0.562	HC/++	E/CA/SC
QS-3490A	E	2.812	1.750	2SS	3.000	0.500		B/CA/SS
QS-3490AV	E	2.812	1.750	2SS	3.000	0.500		V/CA/SS
QS-3492A	E	2.812	2.375	1C	3.000	0.625		B/CA/CE
QS-3513A	E	2.812	1.750	3C	3.000	0.500		B/CA/CE
QS-3514A	E	2.812	1.750	3C	3.000	0.562		B/CA/CE
QS-3727V SCSC	E	2.812	2.375	3SC	3.000	0.562		V/SC/SC
QS-3897V	E	2.812	2.312	3C	2.875	0.562	++/LC	V/CA/CE
QS-4243	E	2.812	2.312	3SS	2.875	0.562	++/LC	B/CA/SS
QS-4434V	E	2.812	2.375	3C	3.000	0.562	++	V/SC/CE
QS-5125SSA	E	2.812	3.000	3SS	3.000	0.562		B/CA/SS
QS-6912	E	2.812	2.125	3C	2.875	0.562	++	B/CA/CE
QS-9964A	E	2.812	1.750	3C	2.875	0.562		B/CA/CE
QS-9966A	E	2.812	1.750	3SS	2.875	0.562		B/CA/SS
QS-9968A	E	2.812	2.375	3SS	2.875	0.625		B/CA/SS
QS-8035A	E	2.812	1.500	2SS	3.000	0.500		B/CA/SS
QS-8105A	E	2.812	1.750	2SS	3.000	0.500		B/CA/SS
QS-3502-2125	E	2.812	2.375	---	---	---		B/CA/---
QS-3714	EB	2.812	2.750	3C	2.750	0.500	++	B/CA/CE
QS-4146	EB	2.812	2.750	5TC	2.625	0.437		B/CA/TC
QS-4418V	EB	2.812	2.750	3C	2.750	0.500	++	V/CA/CE
QS-3020E	G	2.717	1.181	3C	3.000	0.562	316SS	E/CA/CE
QS-887	K	3.000	2.125	1C	3.000	0.562		B/CA/CE
QS-3765	K	3.968	2.125	1SC	3.000	0.562		B/CA/SC
QS-3765	K	3.968	2.125	1TC	3.000	0.562	++	B/CA/TC
QS-6120V	K	3.000	2.125	3 Special	3.000	0.562		V/CA/TC
QS-6121V HC	K	3.000	2.125	3 Special	3.000	0.562	HC	V/CA/TC/C A/SS
QS-4792A	L-2	2.812	1.625	25CA	3.143	1.031		B/SS/CA
QS-4792AV	L-2	2.812	1.625	25CA	3.143	1.031		V/SS/CA
QS-4799A	L-2	2.812	1.625	25CA	3.187	0.844		B/SS/CA

NOTE: HC - HARD CARBON  
LC - LOCK COLLAR  
++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>2.125 (2-1/8") (continued)</b>								
QS-2126	T	2.812	3.375	1C	3.000	0.562	++	B/CA/CE
QS-3879	T	2.812	2.625	3C	3.000	0.562	++	B/CA/CE
QS-4388	T	2.812	3.375	3TC	3.000	0.562	++	B/CA/TC
QS-457	T/U	2.812	3.656	1C	3.000	0.562		B/CA/CE
QS-556	U	2.812	2.375	2SS	3.000	0.562		B/CA/SS
QS-556SS	U	2.812	2.375	2SS	3.000	0.562		B/CA/SS
QS-4584V	U	2.812	2.812	3C	2.750	0.500	++/LC 316SS	V/CA/CE
QS-5126A	U	2.812	3.000	3SS	3.000	0.562		B/CA/SS
QS-1102	V	2.750	2.562	25C	3.140	0.562		B/CA/CE
QS-1107	V	2.750	1.625	25C	3.187	0.875		B/CA/CE
QS-9122	T9	3.000	1.687	2C	3.000	0.562	316SS	CA/CE
QS-8562	T81T	2.812	1.687	3C	2.875	0.562	++316SS	V/CA/CE
QS-8132	T8-1 DOUBLE	2.812	2.625	3C	2.875	0.312	++316SS	V/CA/CE- CA/CE
QS-8702	T81T Special	2.812	2.625	3C	2.875	0.312	++316SS	V/CA/CE
QS-8035	T8B2	3.125	1.156	27C	3.375	1.000	316SS	V/CA/CE
QS-8057	T8B2	3.125	1.312	27C	3.562	1.000	316SS	V/CA/CE
QS-3497AV	Z	3.500	0.875	SEAT UNITIZED WITH SEAL				V/CA/CE
QS-3498AV	Z	3.500	0.875	SEAT UNITIZED WITH SEAL				V/CA/CE
<b>2.165 (55MM) SHAFT</b>								
QS-5019	C	2.820	1.358	2SS	2.952	0.437		B/CA/SS
<b>2.187 (2-3/16") SHAFT</b>								
QS-3530A	C	3.000	1.375	2SS	3.187	0.375		B/CA/SS
QS-4385AV	C	3.000	1.375	2SS	3.187	0.375		V/CA/SS
QS-3003AV	D	3.250	1.000	2SS	3.000	0.406		V/CA/SS
QS-4785A	D	3.250	1.000	2SS	3.000	0.406		B/CA/SS
QS-4785AE	D	3.250	1.000	2SS	3.000	0.406		E/CA/SS
QS-5005	D	3.468	9.690	2SS	3.000	0.406		B/CA/SS
QS-5024V	D	3.468	9.690	2SS	3.000	0.406		V/CA/SS
<b>2.250 (2-1/4") SHAFT</b>								
QS-718V	C	3.125	1.187	1TC	3.125	0.562		V/SC/TC
QS-1680TCTC	C	3.125	1.688	1TC	3.125	0.562		B/TC/TC

NOTE: LC - LOCK COLLAR  
++ - SLOTTED SEAT



Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>2.250 (2-1/4") (continued)</b>								
QS-1680V	C	3.125	1.688	1SS	3.125	0.562		V/CA/SS
QS-1068AN	C	3.125	2.250	1SS	3.147	0.438		N/CA/SS
QS-1068AV	C	3.125	2.250	1SS	3.147	0.438		V/CA/SS
QS-1087	C	3.125	1.437	1C	3.125	0.562		B/CA/CE
QS-1087V	C	3.125	1.437	1C	3.125	0.562		V/CA/CE
QS-1087V-SC-TC	C	3.125	1.437	1TC	3.125	0.562		V/SC/TC
QS-1676	C	3.125	1.688	3SS	3.125	0.562	++	B/CA/SS
QS-1676-E-HC	C	3.125	1.688	3SS	3.125	0.562	HC/++	E/CA/SS
QS-1676-CATC	C	3.125	1.688	3TC	3.125	0.562	++	B/CA/TC
QS-1676V	C	3.125	1.688	3SS	3.125	0.562	++	V/CA/SS
QS-1676V-CATC	C	3.125	1.688	3TC	3.125	0.562	++	V/CA/TC
QS-1678	C	3.125	1.688	3C	3.125	0.562	++	B/CA/CE
QS-1678V	C	3.125	1.688	3C	3.125	0.562	++	V/CA/CE
QS-1679	C	3.125	1.688	1C	3.125	0.562		B/CA/CE
QS-1679-E-HC	C	3.125	1.688	3C	3.125	0.562	HC	E/CA/CE
QS-1679-HC	C	3.125	1.688	1C	3.125	0.562	HC	B/CA/CE
QS-1679V	C	3.125	1.688	1C	3.125	0.562		V/CA/CE
QS-1680	C	3.125	1.688	1SS	3.125	0.562	*	B/CA/SS
QS-1680-HC	C	3.125	1.688	1SS	3.125	0.562	HC	B/CA/SS
QS-3041	C	3.125	2.375	3SS	3.125	0.562		B/CA/SS
QS-3182	C	3.125	1.688	1SC	3.125	0.562		B/SC/SC
QS-3537	C	3.125	2.375	1C	3.125	0.562		B/CA/CE
QS-3537V	C	3.125	2.375	1C	3.125	0.562		V/CA/CE
QS-3540A	C	3.125	1.125	2SS	3.125	0.438		B/CA/SS
QS-3543AV	C	3.125	1.688	2SS	3.125	0.532		V/CA/SS
QS-3544A	C	3.125	0.875	3BR	3.125	0.562		B/CA/BR
QS-3560AN	C	3.125	1.688	2BR	3.125	0.532		N/CA/BR
QS-3560AV	C	3.125	1.688	2BR	3.125	0.532		V/CA/BR
QS-3570AN	C	3.125	2.250	---	---	---		N/CA/---
QS-3580AN	C	3.125	2.250	2SS	3.125	0.438		N/CA/SS
QS-3773V	C	3.125	1.688	1TC	3.125	0.562		V/TC/TC
QS-3955V	C	3.125	1.688	27SS Special	3.125	0.779		V/CA/SS
QS-3966	C	3.125	1.187	3TC	3.125	0.562		B/SC/TC
QS-4585A	C	3.125	1.437	1C	3.250	0.500		B/CA/CE
QS-5076V	C	3.125	1.667	3 Special	3.125	1.015		V/CA/SS
QS-6233V CASC	C	3.125	1.695	3SC	3.125	0.500		V/CA/SC
QS-6248V	C	3.125	1.187	3SS	3.125	0.562		V/CA/SS
QS-6660AN	C	3.125	3.750	---	---	---		N/CA/---
QS-7064	C	3.125	1.437	1TC	3.125	0.562		B/TC/TC
QS-7110A	C	3.125	1.688	2SS	3.125	0.532		B/CA/SS
QS-7138	C	3.125	1.187	1C	3.125	0.562		B/CA/CE
QS-7138-TC-TC	C	3.125	1.187	1TC	3.125	0.562		B/TC/TC
QS-7750E	C	3.125	1.688	3TC	3.125	0.562	++	E/CA/TC
QS-7782	C	3.125	1.187	1SS	3.125	0.562		B/CA/SS
QS-7945AN	C	3.125	2.250	51	---	PLT		N/CA/PLT
QS-2250-2250	C	3.125	1.688	---	---	---		B/CA/---

NOTE: HC - HARD CARBON  
PLT - PLATE SEAT  
++ - SLOTTED SEAT  
\* - TAPERED SPRING

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>2.250 (2-1/4") (continued)</b>								
QS-7750-2250	C	3.125	1.688	---	---	---		B/CA/---
QS-3289	C	3.125	1.688	3SC	3.125	0.562	++	B/SC/SC
QS-846	D	3.375	1.688	3C	3.125	0.562	++	B/CA/CE
QS-847	D	3.375	1.688	3SS	3.125	0.562	++	B/CA/SS
QS-874	D	3.375	1.688	1C	3.125	0.562		B/CA/CE
QS-941	D	3.375	1.688	1SS	3.125	0.562		B/CA/SS
QS-941-E	D	3.375	1.688	1SS	3.125	0.562		E/CA/SS
QS-941V	D	3.375	1.688	3SS	3.125	0.562	++	V/CA/SS
QS-942	D	3.375	1.688	---	---	---		B/CA/---
QS-2087	D	3.375	1.688	1C	3.125	0.562		B/CA/CE
QS-2088	D	3.375	1.688	1SS	3.125	0.562		B/CA/SS
QS-2089	D	3.375	1.688	3C	3.125	0.562	++	B/CA/CE
QS-2090	D	3.375	1.688	3SS	3.125	0.562	++	B/CA/SS
QS-4070V	D	3.704	1.631	3SC	3.125	0.562	++	V/BR/SC
QS-5358	D	3.468	1.688	3	3.125	0.562		B/CA/CE/ Special
QS-323	E	2.938	2.375	1C	3.125	0.562		B/CA/CE
QS-323-HC	E	2.938	2.375	1C	3.125	0.562	HC	B/CA/CE
QS-323-SC-TC	E	2.938	2.375	1TC	3.125	0.562		B/SC/TC
QS-323V	E	2.938	2.375	1C	3.125	0.562		V/CA/CE
QS-351	E	2.938	2.375	1SS	3.125	0.562		B/CA/SS
QS-351V	E	2.938	2.375	3SS	3.125	0.562	++	V/CA/SS
QS-848	E	2.938	2.375	3C	3.125	0.562	++	B/CA/CE
QS-849	E	2.938	2.375	3SS	3.125	0.562	++	B/CA/SS
QS-1688	E	2.938	2.375	3C	3.125	0.562	++	B/CA/CE
QS-1688V	E	2.938	2.375	3C	3.125	0.562	++	V/CA/CE
QS-2091	E	2.938	2.375	1C	3.125	0.562		B/CA/CE
QS-2092	E	2.938	2.375	1SS	3.125	0.562		B/CA/SS
QS-2094	E	2.938	2.375	3SS	3.125	0.562	++	B/CA/SS
QS-2094V	E	2.938	2.375	3SS	3.125	0.562	++	V/CA/SS
QS-2113	E	2.938	2.375	---	---	---		B/CA/---
QS-3067	E	2.938	2.375	3TC	3.125	0.562		B/CA/TC
QS-3075	E	2.938	2.375	3TC	3.281	0.562		B/TC/TC
QS-3530	E	2.938	2.375	3TC	3.125	0.562	++	B/TC/TC
QS-3576V HC	E	2.938	2.375	3TC	3.125	0.562	HC	B/TC/TC
QS-3951V	E	2.938	2.375	27SS	3.906	1.000		V/CA/SS
QS-4409E HC	E	2.938	2.375	3SC	3.125	0.562	HC	E/CA/SC
QS-4549	E	2.938	2.375	3TC	3.125	0.562		B/TC/TC
QS-3643	EB	2.938	2.750	3SS	3.000	0.562	++	B/CA/SS
QS-3784	EB	2.938	2.750	3C	3.000	0.562	++	B/CA/CE
QS-4105V	EB	2.938	2.750	3C	3.000	0.562		V/CA/CE
QS-4380V HC	EB	2.938	2.750	3SC	3.000	0.562	HC	V/CA/SC
QS-7749	EB	2.938	2.750	3TC	3.000	0.562	++	B/CA/TC

NOTE: HC - HARD CARBON  
++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>2.250 (2-1/4") (continued)</b>								
QS-3535AN	K	3.125	1.500	2/51	3.250	PLT		N/CA/PLT
QS-3536AN	K	3.125	1.500	2SS	3.000/3.250	PLT		N/CA/PLT
QS-7060 HC	K	3.109	2.562	3SS	3.281	0.562	HC	B/CA/SS
QS-7431	K	3.125	1.875	1C	3.125	0.562		B/CA/CE
QS-7766	K	3.125	2.125	3C	3.125	0.562		B/CA/CE
QS-3550AN	L-2	2.875	2.500	---	---	---		N/CA/---
QS-4041V	Q	3.660	0.750	1C	3.375	0.281		V/CA/CE
QS-6301N	Q	3.500	0.750	3C	3.000	0.406		N/CA/CE
QS-6302	Q	3.625	0.750	1C	3.375	0.281		B/CA/CE
QS-1073	R	3.375	2.375	3SS	3.125	0.562		B/CA/SS
QS-3077	R	3.375	2.375	1C	3.125	0.562		B/CA/CE
QS-2132	T	2.938	3.375	3C	3.125	0.562		B/CA/CE
QS-3562A	T	2.938	1.875	3C	3.125	0.562		B/CA/CE
QS-3210	V	3.125	2.375	3SS	3.281	0.750		B/CA/SS
QS-9120	T9	3.125	1.687	2CE	3.125	0.562		CA/CE
QS-8712	T8B1	3.125	2.062	3TC	2.750	0.500		V/CA/TC
<b>2.312 SHAFT</b>								
QS-3590AN	C	3.125	1.688	---	---	---		N/CA/---
<b>2.362 (60MM) SHAFT</b>								
QS-3276	G	3.346	1.299	2SC	80MM	0.473		V/CA/SC
QS-5735	G							V/SC/SC
<b>2.375 (2-3/8") SHAFT</b>								
QS-268	C	3.219	1.813	3C	3.250	0.562	++	B/CA/CE
QS-268-HC	C	3.219	1.813	3C	3.250	0.562	HC/++	B/CA/CE
QS-268V	C	3.219	1.813	3C	3.250	0.562	++	V/CA/CE
QS-492	C	3.219	1.813	3SS	3.250	0.562	++	B/CA/SS
QS-492-HC	C	3.219	1.813	3SS	3.250	0.562	HC/++	B/CA/SS
QS-492V	C	3.219	1.813	1SS	3.250	0.562	++	V/CA/SS
QS-492V-HC	C	3.219	1.813	3SS	3.250	0.562	HC/++	V/CA/SS
QS-492V-CATC	C	3.219	1.813	3TC	3.250	0.562	++	V/CA/TC

NOTE: HC - HARD CARBON  
PLT - PLATE SEAT  
++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>2.375 (2-3/8") (continued)</b>								
QS-1026AN	C	3.219	1.813	52	---	PLT		N/CA/PLT
QS-1677	C	3.219	1.813	51SS	---	PLT		B/CA/PLT
QS-1677V	C	3.219	1.813	28SS	5.118	1.060		V/CA/SS
QS-3051CASC	C	3.219	1.813	3SC	3.250	0.562		B/CA/SC
QS-3127V HC	C	3.219	1.813	3C	3.250	0.562	HC/++	V/CA/CE
QS-3233V	C	3.219	1.813	3C	3.250	0.562	316SS	V/CA/CE
QS-3595AN	C	3.219	2.500	1C	3.250	0.562		N/CA/CE
QS-3596A	C	3.219	2.500	1C	3.250	0.562		B/CA/CE
QS-3596AV	C	3.219	2.500	2SS	3.250	0.562		V/CA/SS
QS-3605A	C	3.219	1.813	2SS	3.250	0.562		B/CA/SS
QS-3605AV	C	3.219	1.813	2SS	3.250	0.562		V/CA/SS
QS-3610AN	C	3.219	1.000	---	---	---		N/CA/---
QS-3615AN	C	3.219	2.500	2SS	3.250	0.563		N/CA/SS
QS-3615AV	C	3.219	2.500	2SS	3.250	0.563		V/CA/SS
QS-4325V	C	3.219	1.813	3SC	3.250	0.562	++	V/CA/SC
QS-594	D	3.500	1.812	3SS	3.250	0.562	++	B/CA/SS
QS-594-HC	D	3.500	1.813	3SS	3.250	0.562	HC/++	B/CA/SS
QS-834	D	3.500	1.812	3C	3.250	0.562	++	B/CA/CE
QS-834-HC	D	3.500	1.813	3C	3.250	0.562	HC/++	B/CA/CE
QS-834-CATC	D	3.500	1.813	3TC	3.250	0.562	++	B/CA/TC
QS-2095	D	3.500	1.812	3SS	3.250	0.562	++	B/CA/SS
QS-2096	D	3.500	1.812	3C	3.250	0.562		B/CA/CE
QS-278	E	3.062	2.500	3C	3.250	0.562	++	B/CA/CE
QS-278-HC	E	3.062	2.500	3C	3.250	0.562	HC/++	B/CA/CE
QS-278V	E	3.062	2.500	3C	3.250	0.562	++	V/CA/CE
QS-350	E	3.062	2.500	3SS	3.250	0.562	++	B/CA/SS
QS-350V-HC	E	3.062	2.500	3TC	3.250	0.562	HC/++	V/CA/TC
QS-2097	E	3.062	2.500	3C	3.250	0.562		B/CA/CE
QS-2098	E	3.062	2.500	3SS	3.250	0.562		B/CA/SS
QS-2098V	E	3.062	2.500	3SS	3.250	0.562		V/CA/SS
QS-3085V	E	3.062	2.500	5TC	3.250	0.562		V/CA/TC
QS-3187E	E	3.062	2.500	5TC	3.250	0.562		E/CA/TC
QS-4006	E	3.062	2.500	5TC	3.250	0.562		B/CA/TC
QS-4162E	E	3.062	2.875	3SC	3.250	0.562	++	E/SC/SC
QS-4492V	E	3.062	2.500	3SC	3.250	0.562	++	V/SC/SC
QS-7935V	E	3.062	2.500	3SC	3.250	0.562	++	V/TC/SC
QS-350V2375	E	3.062	2.500	---	---	---		V/CA/---
QS-2098-2375	E	3.062	2.500	---	---	---		B/CA/---
QS-3501	EB	3.062	2.875	3TC	3.125	0.562	++	B/CA/TC
QS-3936	EB	3.062	2.875	3SS	3.125	0.562	++	B/CA/SS
QS-3936V	EB	3.062	2.875	3SS	3.125	0.562	++	V/CA/SS
QS-3936V-CATC	EB	3.062	2.875	3TC	3.125	0.562	++	V/CA/TC
QS-4108V	EB	3.062	2.875	3SC	3.125	0.562	++	V/CA/SC

NOTE:      HC      - HARD CARBON  
              PLT      - PLATE SEAT  
              ++      - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>2.375 (2-3/8") (continued)</b>								
QS-3073	G	3.150	1.299	1SC	3.125	0.531	316SS	B/CA/SC
QS-3008	G	3.150	1.299	1C	3.250	0.562		B/CA/CE
QS-3022	G	3.150	1.299	1TC	3.250	0.562		B/SC/TC
QS-1041	K	3.219	2.125	3SS	3.250	0.562	++	B/CA/SS
QS-1694	K	3.219	2.125	3C	3.250	0.562	++	B/CA/CE
QS-2711	R	3.500	2.375	3C	3.250	0.562	++	B/CA/SC
QS-8003V CASC	T8-1	3.250	1.687	3SC	3.250	0.562	++316SS	V/CA/SC
QS-8560	T8-1	3.250	1.687	3C	3.250	0.562	++316SS	V/CA/CE
QS-8069V	T8 B1	3.250	2.125	3SC	3.000	0.500	++316SS	V/CA/SC
QS-8121E	T8 B1	3.250	2.062	3SC	3.000	0.562	++316SS	E/CA/SC
QS-8113V	T8 BT1	3.000	2.062	3C	3.250	0.562	++316SS	V/CA/CE
<b>2.406 (61MM) SHAFT</b>								
QS-4854	K	3.219	2.125	3SS	3.312	0.500		B/CA/SS
<b>2.437 (2-7/16") SHAFT</b>								
QS-3625A	C	3.219	1.500	3SS	3.437	0.562		B/CA/SS
QS-3626A	C	3.219	1.813	2SS	3.437	0.625		B/CA/SS
QS-7950AN	C	3.219	1.813	51	---	PLT		N/CA/---
QS-3624A	D	3.500	1.175	3SS	3.875	0.468		B/CA/SS
QS-3751V	E	3.312	1.687	3SS	3.437	0.375		V/CA/SS
QS-7580	E	3.312	1.687	3SS	3.437	0.375		B/CA/SS
QS-9333	T9	3.312	1.687	28SS	4.000	0.750	316SS	CA/SS
QS-3627AV	Z	3.750	0.875	SEAT UNITIZED WITH SEAL				V/CA/CE
<b>2.500 (2-1/2") SHAFT</b>								
QS-212	C	3.515	1.813	1C	3.375	0.562		B/CA/CE
QS-269	C	3.344	1.813	3C	3.375	0.562	++	B/CA/CE
QS-269V	C	3.515	1.813	3C	3.375	0.562	++	V/CA/CE
QS-853	C	3.344	1.813	3SS	3.375	0.562	++	B/CA/SS
QS-1058	C	3.344	1.813	3SS	3.375	0.562		B/CA/SS
QS-2120	C	3.344	1.813	1C	3.375	0.562		B/CA/CE
QS-2158	C	3.344	2.125	1C	3.375	0.562		B/CA/CE
QS-3247	C	3.515	1.813	3TC	3.375	0.562		B/CA/TC
QS-3630AN	C	3.344	1.500	51	4.500	PLT		N/CA/PLT

NOTE: PLT - PLATE SEAT  
++ - SLOTTED SEAT



Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>2.500 (2-1/2") (continued)</b>								
QS-3645AN	C	3.344	3.000	51	3.750	PLT		N/CA/PLT
QS-3650A	C	3.344	1.500	2SS	3.500	0.468		B/CA/SS
QS-3651	C/X	3.344	1.250	1C	3.375	0.500		B/CA/CE
QS-3679A	C	3.344	2.500	3C	3.375	0.562		B/CA/CE
QS-3764V	C	3.515	1.813	1TC	3.375	0.562		V/CA/TC
QS-3680A	C	3.344	2.375	2SS	3.375	0.562		B/CA/SS
QS-3681AN	C	3.344	3.000	2SS	3.375	0.500		N/CA/SS
QS-3877V	C	3.515	1.862	3SC	3.375	0.562		V/SC/SC
QS-4075A	C	3.344	1.250	3SS	3.500	0.562		B/CA/SS
QS-4085A	C	3.344	1.813	3SS	3.375	0.375		B/CA/SS
QS-4230A	C	3.344	2.375	---	---	---		B/CA/---
QS-4465AN	C	3.344	1.500	3SS	3.500	0.562		N/CA/SS
QS-6095AN	C	3.344	1.813	2SS	3.375	0.500		N/CA/SS
QS-6138V	C	3.515	1.813	3 Special	3.375	0.562		V/CA/SS
QS-8045A	C	3.344	1.813	2SS	3.625	0.500		B/CA/SS
QS-8055A	C	3.344	1.375	2SS	3.375	0.469		B/CA/SS
QS-3651AF	C	3.344	1.250	1CE	3.375	0.500		AF/CA/CE
QS-335	D	3.625	1.250	3SS	3.375	0.562		B/CA/SS
QS-335V	D	3.718	1.250	3SS	3.375	0.562		V/CA/SS
QS-463	D	3.625	1.813	3SS	3.375	0.562		B/CA/SS
QS-463-TC-SC	D	3.625	1.813	3SC	3.375	0.562	++	B/TC/SC
QS-463V	D	3.625	1.813	3SS	3.375	0.562	++	V/CA/SS
QS-463VSS-CASC	D	3.625	1.813	3SC	3.375	0.562	++	V/CA/SC
QS-468	D	3.625	1.813	3C	3.250	0.437		B/CA/CE
QS-469	D	3.625	1.813	3SS	3.250	0.437		B/CA/SS
QS-481	D	3.625	1.750	3SS	3.500	0.562		B/CA/SS
QS-835	D	3.625	1.813	3C	3.375	0.562	++	B/CA/CE
QS-2099	D	3.625	1.813	3C	3.375	0.562		B/CA/CE
QS-2100	D	3.625	1.813	3SS	3.375	0.562		B/CA/SS
QS-2740V	D	3.625	1.813	3TC	3.375	0.562	++316SS	V/SC/TC
QS-3498V	D	4.375	1.871	3SC	3.375	0.562	++	V/BR/SC
QS-3631AN	D	3.625	1.250	3SS	3.375	0.562		N/CA/SS
QS-3888V	D	3.625	1.813	3SC	3.375	0.562		V/TC/SC
QS-4532V	D Special	4.062	2.078	3 Special TC	3.250	0.875	++316SS	V/CA/TC
QS-279	E	3.187	2.500	3C	3.375	0.562		B/CA/CE
QS-279-HC	E	3.187	2.500	1C	3.375	0.562	HC	B/CA/CE
QS-279V	E	3.187	2.500	3C	3.375	0.562		V/CA/CE
QS-279V-SC-TC	E	3.187	2.500	3TC	3.375	0.562		V/SC/TC
QS-349	E	3.187	2.500	3SS	3.375	0.562		B/CA/SS
QS-349-CATC	E	3.187	2.500	3TC	3.375	0.562		B/CA/TC
QS-349V	E	3.187	2.500	3SS	3.375	0.562		V/CA/SS

NOTE:      HC      - HARD CARBON  
                 PLT      - PLATE SEAT  
                 ++      - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>2.500 (2-1/2") (continued)</b>								
QS-349V-CASC	E	3.187	2.500	3SC	3.375	0.562		V/CA/SC
QS-349V-TC-SC	E	3.187	2.500	3SC	3.375	0.562		V/TC/SC
QS-916	E	3.187	2.500	3C	3.375	0.562		B/CA/CE
QS-916BTC	E(B)	3.187	2.500	3TC	3.250	0.562		B/CA/TC
QS-2101	E	3.187	2.500	3SS	3.375	0.562		B/CA/SS
QS-2205 HC	E	3.187	2.500	3SS	3.375	0.562	HC	B/CA/SS
QS-2205-E-HC	E	3.187	2.500	3C	3.375	0.562	HC	E/CA/CE
QS-3064E	E	3.187	2.500	3C	3.375	0.562		E/CA/CE
QS-3076V	E	3.187	2.312	3TC	3.500	0.422		V/CA/TC
QS-3164 HC	E	3.187	2.500	5TC	3.375	0.562	HC	B/CA/TC
QS-3206V	E	3.187	2.718	3SC	3.250	0.562		V/CA/SC
QS-3516E	E	3.187	2.500	3TC	3.250	0.562		E/CA/TC
QS-3632A	E	3.187	2.500	3C	3.375	0.562		B/CA/CE
QS-3806V	E	3.187	2.718	3C	3.250	0.562		LC/V/CA/CE
QS-3924	E	3.187	2.500	3SS	3.250	0.562		B/CA/SS
QS-4380AN	E	3.187	1.500	3SS	3.500	0.562		N/CA/SS
QS-4411	E	3.187	2.500	1TC	3.375	0.562		B/SC/TC
QS-4466V	E	3.187	2.718	3SC	3.250	0.625	++/LC	V/TC/SC
QS-6254	E	3.187	1.813	3C	3.500	0.422		B/CA/CE
QS-7716	E	3.187	2.718	3SS	3.250	0.562	LC	B/CA/SS
QS-7985E HC	E	3.062	2.500	3TC	3.375	0.562	HC/++	E/CA/TC
QS-3640AN	G	3.344	1.625	51	---	PLT		N/CA/PLT
QS-3804E	G	3.268	1.811	25SC	3.375	0.562		E/CA/SC
QS-4490E	G	3.268	1.811	25SC	3.375	0.562	316SS	E/SC/SC
QS-1613	K	3.344	2.125	3C	3.375	0.562	++	B/CA/CE
QS-1695	K	3.344	2.125	3SS	3.375	0.562	++	B/CA/SS
QS-2158	K	3.344	2.125	1C	3.375	0.562		B/CA/CE
QS-2158-TC-TC	K	3.344	2.125	1TC	3.375	0.562		B/TC/TC
QS-3635AN	K	3.344	2.125	---	---	---		N/CA/---
QS-3655A	K	3.344	1.625	2SS	3.500	0.468		B/CA/SS
QS-4311	K	3.344	2.125	1SC	3.375	0.562		B/SC/SC
QS-6140V	K	3.375	1.750	3 Special TC	3.375	0.562		V/CA/TC
QS-6141V	K	3.344	1.750	3 Special SS	3.375	0.562		V/CA/SS
QS-6997N	K	3.359	1.750	3SS	3.375	0.562	++	N/CA/SS
QS-8050AN	K	3.344	1.625	2S/51	3.625	0.438		N/CA/PLT/SS
QS-6640AN	L-1	3.125	2.000	---	---	---		N/CA/---
QS-3670AN	L-2	3.125	2.625	---	---	---		N/CA/---

NOTE: HC - HARD CARBON  
LC - LOCK COLLAR  
PLT - PLATE SEAT  
++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>2.500 (2-1/2") (continued)</b>								
QS-889	R	3.625	2.187	3SS	3.375	0.531		B/CA/SS
QS-6146N	R	3.625	2.562	3SS	3.375	0.531		N/CA/SS
QS-3652AN	T	3.187	2.125	1C	3.375	0.562		N/CA/CE
QS-4072	T	3.187	2.656	3C	3.500	0.422		B/CA/CE
QS-4109V	T	3.187	2.938	3TC 3SC	3.375	0.563		V/CA/TC/C A/SC
QS-4580V	T	3.187	2.938	1TC 1SC	3.375	0.563		V/CA/TC/C A/SC
QS-6243V	T	3.187	2.656	3SC 3TC	3.500	0.422		V/CA/SC/CA /TC
QS-6244V	T	3.187	2.656	3SC 3TC	3.500	0.422		V/CA/SC/CA /TC
QS-8044AV	U	3.187	0.800	7SS	M.O.S.	0.312		V/CA/SS
QS-2147	V	3.187	2.375	3C	3.500	0.562		B/CA/CE
QS-4523	V	3.187	2.375	3C	3.250	0.562		B/CA/CE
QS-9710	T9B	3.375	2.062	Special SS	3.125	1.062	316SS	CA/SS
QS-8108	T81T	3.125	1.375	3 Special SS	3.375	0.562	316SS	V/CA/SS
QS-8089E	T8B1	3.375	2.062	3SC	3.125	0.562	316SS	E/CA/SC
QS-8103V	T8B1	3.375	2.062	3TC	3.125	0.562	316SS	V/CA/TC
<b>2.625 (2-5/8") SHAFT</b>								
QS-571	C	3.469	2.732	3SS	3.336	0.531		B/CA/SS
QS-1051A	C	3.469	1.125	3SS	4.000	0.434		B/CA/SS
QS-3695AN	C	3.469	2.732	2SS	3.500	0.500		N/CA/SS
QS-3705AN	C	3.469	2.732	2SS	3.625	0.437		N/CA/SS
QS-8060AN	C	3.469	2.732	2SS	3.437	0.687		N/CA/SS
QS-9917AV	C	3.469	1.125	3B	4.000	0.496		V/CA/BR
QS-3188E	D	3.875	1.937	3TC	3.375	0.625	++	E/CA/TC
QS-6002V	D	3.875	1.937	3SS	3.375	0.625	++	V/CA/SS
QS-7888AV	D	3.750	1.125	3SS	3.750	0.565		V/CA/SS
QS-7909 HC	D	3.875	1.937	3C	3.375	0.625	HC/++	B/CA/CE
QS-328	E	3.375	2.750	3C	3.375	0.625	++	B/CA/CE
QS-328-HC	E	3.375	2.750	3SS	3.375	0.625	HC/++	B/CA/SS

NOTE: HC - HARD CARBON  
++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>2.625 (2-5/8") (continued)</b>								
QS-542	E	3.375	2.750	3SS	3.375	0.625	++	B/CA/SS
QS-3300	E	3.375	2.750	3SS	3.375	0.625		B/CA/SS
QS-4392E	E	3.375	2.625	3TC	3.625	0.593	++/LC	E/CA/TC
QS-4472V	E	3.375	2.750	3TC	3.375	0.625		V/SC/TC
QS-4485	EB	3.375	3.125	3TC	3.375	0.562	++	B/SC/TC
QS-4554	EB	3.375	3.125	5TC	3.375	0.562		B/CA/TC
QS-7703	EB	3.375	3.125	3C	3.375	0.562	++	B/CA/CE
QS-7927	EB	3.375	3.125	3SS	3.375	0.562	++	B/CE/SS
QS-4797A	L-2	3.500	1.625	25CA	3.645	0.562		B/SS/CA
QS-1106	V	3.375	2.562	25C	3.643	0.562		B/CA/CE
<b>2.687 SHAFT</b>								
QS-3710A	C	3.469	1.375	2SS	3.937	0.438		B/CA/SS
<b>2.750 (2-3/4") SHAFT</b>								
QS-483	C	3.750	1.937	3SS	3.500	0.625	++	B/CA/SS
QS-483-SC-TC	C	3.750	1.937	3TC	3.500	0.625	++/LC	B/SC/TC
QS-483-CATC	C	3.750	1.937	3TC	3.500	0.625	++	B/CA/TC
QS-483V-CATC	C	3.750	1.937	3TC	3.500	0.625	++	V/CA/TC
QS-836	C	3.750	1.937	3C	3.500	0.625	++	B/CA/CE
QS-836-HC	C	3.750	1.937	3C	3.500	0.625	HC/++	B/CA/CE
QS-836SS	C	3.750	1.300	3C	3.500	0.625	++	B/SC/CE
QS-1058AN	C	3.750	1.375	5I	4.500	PLT		N/CA/PLT
QS-2124	C	3.750	1.937	3SS	3.500	0.625		B/CA/SS
QS-2152	C	3.750	1.937	3SS	3.500	0.625		B/CA/SS
QS-2152V	C	3.750	2.000	3SS	3.500	0.625		V/CA/SS
QS-2154	C	3.750	1.125	3C	3.500	0.625		B/CA/CE
QS-2154-SC-TC	C	3.750	1.125	1TC	3.500	0.625	++	B/SC/TC
QS-2154-TC-SC	C	3.750	1.125	1SC	3.500	0.625	++	B/TC/SC
QS-2154-CATC	C	3.750	1.125	1TC	3.500	0.625	++	B/CA/TC
QS-2154V-TC-TC	C	3.750	1.125	3TC	3.500	0.625	++	V/TC/TC
QS-2155	C	3.750	1.125	3C	3.500	0.625		B/CA/CE
QS-2708V	C	3.750	1.937	3SC	3.500	0.625	++	V/CA/SC
QS-3661V	C	3.750	1.500	3TC	3.500	0.625		V/SC/TC
QS-3719AV	C	3.750	1.375	3SS	3.500	0.500		V/CA/SS
QS-3720A	C	3.750	1.937	3SS	3.312	0.562		B/CA/SS
QS-3727A	C	3.750	1.375	3SS	3.500	0.500		B/CA/SS
QS-3841	C	3.750	1.937	3SC	3.500	0.625		B/CA/SC
QS-3994	C	3.750	1.500	3C	3.500	0.625		B/CA/CE
QS-4308	C	3.750	1.937	1TC	3.500	0.625		B/TC/TC

NOTE: HC - HARD CARBON  
LC - LOCK COLLAR  
PLT - PLATE SEAT  
++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>2.750 (2-3/4") (continued)</b>								
QS-4366	C	3.750	1.500	3TC	3.500	0.625		B/SC/TC
QS-4381V	C	3.750	1.125	1TC	3.500	0.625		V/TC/TC
QS-6154V	C	3.625	1.687	27SS	4.406	0.779		V/CA/SS
QS-6155V	C	3.750	1.937	3SS	3.500	0.625	++	V/CA/SS
QS-6205	C	3.750	1.125	1C	3.500	0.625		B/CA/CE
QS-6207V	C	3.750	1.125	3C	3.500	0.625		V/CA/CE
QS-6239	C	3.750	1.500	3SC	3.500	0.625		B/SC/SC
QS-6908	C	3.750	1.125	1TC	3.500	0.625		B/TC/TC
QS-8070A	C	3.750	1.937	2SS	3.500	0.469		B/CA/SS
QS-337	D	4.000	1.937	3SS	3.750	0.625		B/CA/SS
QS-464	D	4.000	1.937	3SS	3.500	0.625	++	B/CA/SS
QS-464-CATC	D	4.000	1.937	3TC	3.500	0.625	++	B/CA/TC
QS-837	D	4.000	1.937	3C	3.500	0.625	++	B/CA/CE
QS-837-HC	D	4.000	1.937	3C	3.500	0.625	HC/++	B/CA/CE
QS-3189V	D	4.000	1.937	3TC	3.500	0.625	++316SS	V/SC/STC
QS-3713AN	D	4.000	1.125	3SS	4.375	0.468		N/CA/SS
QS-3715A	D	4.000	1.125	2SS	3.625	0.468		B/CA/SS
QS-3715AE	D	4.000	1.125	2SS	3.625	0.468		E/CA/SS
QS-3737AN	D	4.000	1.937	3C	3.750	0.625		N/CA/CE
QS-321	E	3.500	2.750	3SS	3.500	0.625	++	B/CA/SS
QS-321-HC-TC	E	3.500	2.750	3TC	3.500	0.625	HC/++	B/CA/TC
QS-321V	E	3.500	2.750	3SS	3.500	0.625	++	V/CA/SS
QS-321V-CATC	E	3.500	2.750	3TC	3.500	0.625	++	V/CA/TC
QS-838	E	3.500	2.750	3C	3.500	0.625	++	B/CA/CE
QS-838-HC	E	3.500	2.750	3C	3.500	0.625	HC/++	B/CA/CE
QS-3037 TCTC	E	3.500	2.750	1TC	3.500	0.625		B/TC/TC
QS-3059E	E	3.500	3.250	3SC	3.500	0.625	LC	E/CA/SC
QS-3725AN	E	3.500	1.937	---	---	---		N/CA/---
QS-4089V	E	3.500	2.750	3SC	3.500	0.625		V/CA/SC
QS-4446V	E	3.500	2.750	3TC	3.500	0.625		V/TC/TC
QS-4544V	E	3.500	3.250	3SC	3.500	0.625		V/SC/SC
QS-4583V	E	3.500	3.250	3C	3.500	0.625	LC	V/CA/CE
QS-4788	E	3.500	2.750	3SC	3.500	0.625		B/TC/SC
QS-7936V	E	3.500	2.750	3TC	3.500	0.625		V/CA/TC
QS-9970A	E	3.500	2.000	3SS	3.750	0.625		B/CA/SS
QS-9971A	E	3.500	2.750	3SS	3.750	0.625		B/CA/SS
QS-322	K	3.750	3.750	3SS	3.500	0.625	++	B/CA/SS
QS-2148	K	3.750	1.875	3C	3.500	0.625		B/CA/CE
QS-3718A	K	3.750	1.750	2SS	3.750	0.531		B/CA/SS
QS-4855AN	K	3.750	2.375	3SS	4.000	0.750		N/CA/SS
QS-6645AN	L-1	3.375	2.000	---	---	---		N/CA/---

NOTE: HC - HARD CARBON  
LC - LOCK COLLAR  
++ - SLOTTED SEAT



Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>2.750 (2-3/4") (continued)</b>								
QS-3722A	T	3.500	3.625	3SS	3.500	0.625		B/CA/SS
QS-4564	T	3.500	3.750	3TC 3TC	3.750	0.625		B/CA/TC/CA/TC
QS-9314	T9	3.625	1.687	2C	3.500	0.625	316SS	CA/CE
QS-8120V	T8-1	3.625	1.687	3TC	3.500	0.625	316SS	V/CA/TC
QS-8128E	T8-1	3.625	1.687	5TC	3.500	0.625	316SS	E/CA/TC
QS-8102V	T8 B1	3.625	2.062	3TC	3.375	0.562	316SS	V/CA/TC
QS-8136V	T8 1T	3.375	1.687	3C	3.500	0.625	316SS	V/CA/CE
<b>2.875 (2-7/8") SHAFT</b>								
QS-270	C	3.718	2.062	3C	3.750	0.625	++	B/CA/CE
QS-839	C	3.718	2.062	3SS	3.750	0.625		B/CA/SS
QS-1074	C	3.718	1.312	3SS	3.750	0.625		B/CA/SS
QS-3745AN	C	3.718	2.062	---	---	---		N/CA/---
QS-3755A	C	3.718	1.125	---	---	---		B/CA/---
QS-3771A	C	3.718	2.062	3C	3.750	0.625		B/CA/CE
QS-4590AN	C	3.718	2.062	2SS	3.875	0.688		N/CA/SS
QS-329	E	3.625	2.875	3C	3.750	0.625	++	B/CA/CE
QS-329-HC	E	3.625	2.875	3C	3.750	0.625	HC/++	B/CA/CE
QS-841	E	3.625	2.875	3SS	3.750	0.625	++	B/CA/SS
QS-841-E	E	3.625	2.875	3SS	3.750	0.625	++	E/CA/SS
QS-841-HC	E	3.625	2.875	3SS	3.750	0.625	HC/++	B/CA/SS
QS-3729A	E	3.625	2.875	3C	3.750	0.625		B/CA/CE
QS-4341	E	3.625	2.875	5TC	3.750	0.625		B/CA/TC
QS-5737 CA-B	EB	3.625	3.250	3CE	3.500	0.625	++	B/CA/CE
QS-1075	K	3.718	1.750	SP*3S	4.500	0.265		B/CA/SS
QS-3740A	K	3.718	2.250	2SS	3.875	0.515		B/CA/SS
QS-4028N	K	4.500	1.700	3 Special	4.500	0.292		N/CA/SS
QS-4296V	V	3.625	2.250	3C	3.750	0.625	++	V/CA/CE
QS-8701V	T81T DOUBLE	3.500	2.250	3C	3.750	0.625	++316SS/S	V/TC/CE
<b>2.937 SHAFT</b>								
QS-3760A	C	3.718	1.312	2SS	4.187	0.438		B/CA/SS

NOTE: HC - HARD CARBON  
++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>3.000 (3") SHAFT</b>								
QS-1059	C	4.000	2.750	3SS	3.875	0.625		B/CA/SS
QS-1088	C	4.000	1.312	3C	3.875	0.625	++ / *	B/CA/CE
QS-1088-TC-TC	C	4.062	1.312	3TC	3.875	0.625	++ / *	B/TC/TC
QS-1088V	C	4.062	1.312	3CE	3.875	0.625	++ / *	V/CA/CE
QS-1088V	C	4.062	1.312	3TC	3.875	0.625	++ / *	V/TC/TC
QS-1696	C	4.000	2.062	3C	3.875	0.625		B/CA/CE
QS-2115	C	4.000	2.062	3SS	3.875	0.625	++	B/CA/SS
QS-2115-CATC	C	4.000	2.062	3TC	3.875	0.625	++	B/CA/TC
QS-2116	C	4.000	2.062	3C	3.875	0.625	++	B/CA/CE
QS-2116-SC-SC	C	4.000	2.062	3SC	3.875	0.625	++	B/SC/SC
QS-2153	C	4.000	1.125	3C	3.875	0.625	++	B/CA/CE
QS-2153-SC-SC	C	4.000	1.125	3SC	3.875	0.625	++	B/SC/SC
QS-2153-CATC	C	4.000	1.125	3TC	3.875	0.625	++	B/CA/TC
QS-2153V-TC-TC	C	4.000	1.125	3TC	3.875	0.625	++	V/TC/TC
QS-3043V	C	4.000	2.062	1SC	3.875	0.625		V/CA/SC
QS-3152V	C	4.000	1.125	1SC	3.875	0.625	316SS	V/SC/SC
QS-3232V	C	4.000	1.125	3TC	3.875	0.625		V/CA/TC
QS-3235	C	4.000	2.062	1C	3.875	0.625	316SS	B/CA/CE
QS-3275V	C	4.000	2.062	3TC	3.875	0.625		V/CA/TC
QS-3539V	C	4.000	1.125	1TC	3.875	0.625		V/TC/TC
QS-3600	C	4.000	1.500	3SS	3.875	0.625		B/CA/SS
QS-3701	C	4.000	1.500	3TC	3.875	0.625		B/SC/TC
QS-3770AN	C	4.000	3.000	8BR	3.875	0.687		N/CA/BR
QS-3777V	C	4.000	2.062	3SC	3.875	0.625	++	V/CA/SC
QS-3780A	C	4.000	2.062	3SS	3.562	0.469		B/CA/SS
QS-3785AN	C	4.000	2.062	---	---	---		N/CA/---
QS-4086V	C	4.000	2.062	1C	3.875	0.625		V/CA/CE
QS-4352	C	4.062	1.312	3TC	3.875	0.625	++	B/SC/TC
QS-4367	C	4.000	1.125	3SS	3.875	0.625		B/CA/SS
QS-4378V	C	4.000	1.125	1TC	3.875	0.625		V/SC/TC
QS-4481V	C	4.000	2.062	3TC	3.875	0.625		V/TC/TC
QS-6206V	C	4.000	1.125	3C	3.875	0.625	++	V/CA/CE
QS-6172	C	4.000	2.062	3 Special	3.875	0.625	++	B/CA/CE
QS-6173	C	3.843	1.125	3 Special	3.875	0.625	++	B/CA/CE
QS-6214V	C	4.000	2.062	1TC	3.875	0.625		V/TC/TC
QS-6225V	C	4.000	2.062	3SC	3.875	0.625		V/SC/SC
QS-6240	C	4.000	1.500	3SC	3.875	0.625		B/SC/SC
QS-6249 TCTC	C	4.000	1.125	3TC	3.875	0.625		B/TC/TC
QS-6249 SCTC	C	4.000	1.125	3	3.875	0.625		B/SC/TC
QS-6250V	C	4.000	1.125	3SS	3.875	0.625		V/CA/SS
QS-7875	C	4.000	2.062	1TC	3.875	0.625		B/TC/TC
QS-7955AN	C	4.000	2.062	51	---	PLT		N/CA/PLT
QS-7998	C	4.000	1.125	1TC	3.875	0.625		B/TC/TC
QS-8075A	C	4.000	2.375	2SS	3.875	0.469		B/CA/SS
QS-465	D	4.250	2.062	3SS	3.875	0.625	++	B/CA/SS

NOTE: PLT - PLATE SEAT  
++ - SLOTTED SEAT  
\* - TAPERED SPRING

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>3.000 (3") (continued)</b>								
QS-465V	D	4.250	2.062	3SS	3.875	0.625	++	V/CA/SS
QS-761	D	4.250	2.062	3C	3.875	0.625	++	B/CA/SC
QS-2709	D	4.250	2.062	1SC	3.875	0.625		B/SC/SC
QS-2710V	D	4.250	2.062	3SC	3.883	0.625	++316SS	V/TC/SC
QS-2716V	D	4.250	2.062	3SC	3.875	0.625		V/TC/SC
QS-3713N	D	4.250	2.062	3SS	4.000	0.625		N/CA/SS
QS-3776V	D	4.250	2.062	3TC	3.875	0.625		V/TC/TC
QS-4033V	D	4.250	2.062	3SC	3.875	0.625	++	V/TC/SC
QS-4324V	D	4.250	2.062	3SS	4.000	0.625		V/CA/SS
QS-6202	D	4.250	2.062	1TC	3.875	0.625		B/TC/TC
QS-6219	D	4.250	2.062	3SC	3.875	0.625		B/TC/SC
QS-6232V	D	4.250	2.062	3SC	3.875	0.625		V/TC/SC
QS-324	E	3.750	2.813	3C	3.875	0.625	++	B/CA/CE
QS-324-HC	E	3.750	2.875	3C	3.875	0.625	HC/++	B/CA/CE
QS-324-SC-TC	E	3.750	2.875	3TC	3.875	0.625	++	B/SC/TC
QS-324SS	E	3.750	2.875	3C	3.875	0.625	++	B/CA/CE
QS-324SSV	E	3.750	2.875	3C	3.875	0.625	++	V/CA/CE
QS-324-TC-TC	E	3.750	2.875	3TC	3.875	0.625	++	B/TC/TC
QS-475	E	3.750	2.813	3SS	3.875	0.625		B/CA/SS
QS-1034A	E	3.750	2.000	51	---	PLT		B/CA/PLT
QS-1060	E	3.750	2.813	3SS	3.875	0.625		B/CA/SS
QS-1060V	E	3.750	2.875	3SS	3.875	0.625		V/CA/SS
QS-3766AN	E	3.750	2.813	3SS	3.875	0.625		N/CA/SS
QS-3770	E	3.750	2.875	3SC	3.875	0.625	++	B/TC/SC
QS-3969	E	3.750	2.625	3C	4.000	0.500	LC	B/CA/CE
QS-4082	E	3.750	2.875	3SS	4.000	0.500		B/CA/SS
QS-4147 HC	E	3.750	2.875	3C	3.875	0.625	HC	B/CA/CE
QS-4172V	E	3.750	2.875	3SS	3.875	0.625		V/CA/SS
QS-5252	E	3.750	2.875	3SS	3.875	0.625	++	B/CA/SS
QS-6174V	E	3.750	2.875	3SS	3.875	0.625		V/CA/SS
QS-9931A	E	3.750	2.000	3SS	3.875	0.625		B/CA/SS
QS-3021V	G	3.898	2.062	1SC	3.875	0.625	316SS	V/SC/SC
QS-3802E	G	3.898	2.062	3SC	3.875	0.625		E/CA/SC
QS-2141	K	4.000	2.500	3SS	3.875	0.625	++	B/CA/SS
QS-3518	K	4.000	2.500	1C	3.875	0.625		B/CA/CE
QS-3775A	K	4.000	1.750	2SS	4.000	0.515		B/CA/SS
QS-3776AN	K	4.000	3.000	3SS	3.875	0.625		N/CA/SS
QS-3777A	K	4.000	2.625	2SS	4.000	0.515		B/CA/SS
QS-4196	K	4.000	2.062	3TC	3.875	0.625	++	B/TC/TC
QS-6169N	K	3.968	1.750	3 Special	3.875	0.625		N/CA/CE
QS-6170V	K	3.968	1.750	3 Special TC	3.875	0.625	++	V/CA/TC

NOTE:      HC      - HARD CARBON  
              LC      - LOCK COLLAR  
              PLT     - PLATE SEAT  
              ++      - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>3.000 (3") (continued)</b>								
QS-6171V	K	3.968	1.750	3 Special	3.875	0.625		V/CA/CE
QS-6228V	K	4.000	2.500	3C	3.875	0.625		V/CA/CE
QS-7873	K	4.000	2.125	3C	3.875	0.625	++	B/CA/CE
QS-4783A	L-2	3.750	2.750	25CA	4.250	0.625		B/SS/CA
QS-4975AN	L-2	3.625	2.750	---	---	---		N/CA/---
QS-284	R	4.250	2.750	3SS	3.875	0.625	++	B/CA/SS
QS-986	R	4.250	3.000	3SS	3.875	0.562		B/CA/SS
QS-6175N	R	4.250	3.000	3SS	3.875	0.562		N/CA/SS
QS-4784A	T	3.750	2.000	2SS	4.125	0.569		B/CA/SS
QS-7993	T	3.750	3.125	3C	4.000	0.500		B/CA/CE
QS-897	U	3.750	3.375	3C	3.875	0.625		B/CA/CE
QS-3836	U	3.750	3.875	3C	3.875	0.625	LC / ++	B/CA/CE
QS-893	V	3.750	2.750	25C	4.250	0.625		B/CA/CE
QS-3181	V	3.750	2.750	3C	4.250	0.625	316SS	B/CA/CE
QS-4069	V	3.750	2.750	3TC	4.000	0.500		B/CA/TC
QS-7215	V	3.750	2.750	3C	4.000	0.500	316SS	B/CA/CE
QS-9140	T9	3.812	1.687	2C	3.875	0.625	316SS	CA/CE
QS-8088-81	T8-1	3.812	1.687	---	---	---	316SS	V/CA/---
QS-8144	T8B1	3.812	2.063	3TC	3.500	0.625	316SS	V/CA/TC
<b>3.125 (3-1/8") SHAFT</b>								
QS-3790AN	C	4.000	3.375	2SS	4.250	0.625		N/CA/SS
QS-3790AV	C	4.000	3.375	2SS	4.250	0.625		V/CA/SS
QS-3800AN	D	4.562	1.250	---	---	---		N/CA/---
QS-7889AV	D	4.562	1.125	3SS	4.125	0.562		V/CA/SS
QS-4789A	L-2	4.250	2.625	25CA	4.750	1.031		B/SS/CA
QS-1076	R	4.562	3.406	3SS	4.000	0.781		B/CA/SS
QS-1069	V	3.875	3.062	3C	4.750	0.781		B/CA/CE

NOTE: LC - LOCK COLLAR  
++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>3.125 (3-1/8") (continued)</b>								
QS-8086V	T8-1	3.937	1.687	3TC	4.000	0.781	316SS	V/CA/TC
QS-9949AV	Z	4.750	1.000	SEAT UNITIZED WITH SEAL				V/CA/CE
<b>3.149 (80MM) SHAFT</b>								
QS-3270V	G	104MM	40MM	2SC	105MM	12.5MM	316SS	V/CA/SC
<b>3.250 (3-1/4") SHAFT</b>								
QS-572	C	4.187	4.163	2SS	4.500	0.500		B/CA/SS
QS-573	C	4.187	2.937	2SS	4.000	0.531		B/CA/SS
QS-3180V	C	4.250	2.187	3C	4.125	0.781		V/CA/CE
QS-3702	C	4.406	1.562	3TC	4.125	0.781		B/SC/TC
QS-3806AN	C	4.187	2.000	3SS	4.250	0.781		N/CA/SS
QS-4127	C	4.406	1.562	3C	4.125	0.781	++	B/CA/CE
QS-5720AN	C	4.187	2.937	2SS	4.500	0.500		N/CA/SS
QS-5720AV	C	4.187	2.937	2SS	4.500	0.500		V/CA/SS
QS-5721AN	C	4.187	2.937	51/2S	4.500	0.500		N/CA/PLT/S S
QS-5730AN	C	4.187	2.937	2SS	4.000	0.531		N/CA/SS
QS-6226V SCSC	C	4.250	2.187	3SC	4.125	0.781		V/SC/SC
QS-6253	C	4.406	1.562	3C	4.125	0.781		B/CA/CE
QS-6258	C	4.406	1.562	3SS	4.125	0.781		B/CA/SS
QS-7835	C	4.250	2.187	3C	4.125	0.781		B/CA/CE
QS-480	D	4.687	2.062	3SS	4.250	0.781		B/CA/SS
QS-2803	D	4.687	2.187	3TC	4.125	0.781	++	V/SC/TC
QS-3222V	D	4.187	2.062	3SC	4.125	0.781	++	V/TC/SC
QS-3827	D	4.187	2.187	3TC	4.125	0.781		B/TC/TC
QS-4175	D	4.687	2.187	3SS	4.500	0.781		B/CA/SS
QS-6201V	D	4.687	2.187	3C	4.125	0.781		V/CA/CE
QS-7172	D	4.687	2.187	3C	4.125	0.781		B/CA/CE
QS-330	E	4.125	3.125	3C	4.125	0.781		B/CA/CE
QS-3072V	E	4.125	3.125	3SS	4.125	0.781	++	V/CA/SS
QS-3246	E	4.125	3.125	3TC	4.125	0.781		B/SC/TC
QS-3816A	E	4.125	3.125	3SS	4.125	0.781		B/CA/SS
QS-7754	E	4.125	3.125	3SS	4.125	0.781		B/CA/SS
QS-3050	EB	4.125	3.500	3C	3.875	0.625		B/CA/CE
QS-3256V	EB	4.125	3.500	3C	3.875	0.625		V/CA/CE
QS-3268V	EB	4.125	3.500	3TC	3.875	0.625		V/CA/TC

NOTE: PLT - PLATE SEAT  
++ - SLOTTED SEAT



Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>3.250 (3-1/4") (continued)</b>								
QS-10144	EB	4.125	3.500	---	---	---		B/CA/---
QS-3154V	G	4.094	2.187	1SC	4.125	0.781	316SS	V/SC/SC
QS-3258V	K	4.250	2.750	3SS 3TC	4.125	0.781		V/CA/SS/TC /TC
QS-3805A	K	4.187	2.125	2SS	4.250	0.515		B/CA/SS
QS-3815A	K	4.187	2.125	2SS	4.250	0.515		B/CA/SS
QS-3825A	K	4.187	2.125	3SS	4.250	0.523		B/CA/SS
QS-4585	K	4.187	2.875	3SC	4.125	0.781		B/CA/SC
QS-6227V	K	4.187	2.625	3C	4.125	0.781		V/CA/CE
QS-7244	K	4.250	2.875	3SS	4.125	0.781	++	B/CA/SS
QS-3255V	T	4.125	4.250	3SC	4.125/4.500	0.781		V/SC/SC
QS-325	U	4.125	3.032	3SS	4.125	0.781		B/CA/SS
QS-325SS	U	4.125	3.032	3SS	4.125	0.781	LC/++	B/CA/SS
QS-3157V	U	4.125	3.032	3TC	4.125	0.781	LC	V/CA/TC
QS-4174	U	4.125	3.437	3TC	4.125	0.781	LC	B/TC/TC
QS-4192	U	4.125	3.032	3C	4.125	0.781		B/CA/C
QS-4475E	U	4.125	3.437	3C	4.125	0.781	LC	E/CA/CE
QS-4483V	U	4.125	3.437	3SS	4.125	0.781		V/CA/SS
QS-4393	UB	4.125	3.812	5TC	3.875	0.625	LC	B/CA/TC
<b>3.312 (84MM) SHAFT</b>								
QS-3835AN	C	4.250	4.000	2SS	4.437	0.688		N/CA/SS
QS-3836AN	C	4.250	4.250	2SS	4.437	0.688		N/CA/SS
QS-3837AN	C	4.250	2.250	2B	4.437	0.688		N/CA/BR
QS-3838AN	C	4.250	2.625	2B	4.437	0.688		N/CA/BR
QS-4935AN	C	4.250	2.625	2SS	4.250	0.812		N/CA/SS
QS-5725AN	C	4.250	2.625	2SS	4.437	0.688		N/CA/SS
<b>3.375 (3-3/8") SHAFT</b>								
QS-6177V	C	4.500	2.187	3SS	4.250	0.781	++	V/CA/SS
QS-3961V	K	4.421	1.750	---	---	---		V/CA/---
QS-8706V	T8-1	4.250	1.687	3C	4.250	0.781	316SS	V/CA/CE
QS-6179V	T8-1	4.250	1.687	3 Special	5.031	0.750	316SS	V/CA/CE

NOTE: LC - LOCK COLLAR  
++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>3.437 (3-7/16") SHAFT</b>								
QS-3505V	U	4.375	2.937	3SS	4.375	0.781	++	V/CA/SS
QS-8106V	T8-1	4.312	1.687	3SS	4.312	0.781	++	V/CA/SS
<b>3.497 SHAFT</b>								
QS-7891AV	D	4.937	1.150	3SS	4.884	0.562		V/CA/SS
<b>3.500 (3-1/2") SHAFT</b>								
QS-3847A	C	4.500	1.875	3SS	4.375	0.781		B/CA/SS
QS-4164E	C	4.625	2.187	3TC	4.375	0.781		E/CA/TC
QS-6204	C	4.625	2.187	3C	4.375	0.781	++	B/CA/CE
QS-6245	C	4.625	2.187	3SS	4.375	0.781		B/CA/SS
QS-7890AV	C	4.500	1.375	3SS	4.375	0.437		V/CA/SS
QS-3745V	D	4.937	2.187	3TC	4.375	0.781		V/TC/TC
QS-6221	D	4.937	2.187	3TC	4.375	0.781		B/TC/TC
QS-3143V TCTC	E	4.375	3.125	3TC	4.375	0.781		V/TC/TC
QS-4019 HC	E	4.375	3.125	3C	4.375	0.781	HC	B/CA/CE
QS-4881	E	4.375	3.125	3SS	4.375	0.781		B/CA/SS
QS-3793E	G	4.402	2.189	3SC	4.375	0.625		B/CA/SC
QS-4236	R	4.937	3.125	3SC	4.375	0.781		B/CA/SC
QS-4113	T	4.375	3.562	3SS	4.375	0.781	++	B/CA/SS
QS-4168	T	4.375	4.250	3C	4.375	0.781		B/CA/CE
QS-3238	U	4.375	3.625	3C	4.750	0.781		B/CA/CE
QS-4027-U	U	4.375	3.125	---	---	---		B/CA/---
QS-9337	T9	4.375	1.687	3TC	4.375	0.781	316SS	CA/TC
QS-9352	T9	4.375	1.687	3SS	4.375	0.781	316SS	CA/SS
QS-3862V	T8-1	4.375	1.687	3SS	4.375	0.781	316SS	V/CA/SS

NOTE: HC - HARD CARBON  
++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>3.562 SHAFT</b>								
QS-3843AV	S	5.250	1.500	SEAT UNITIZED WITH SEAL				V/CA/CE
<b>3.625 (3-5/8") SHAFT</b>								
QS-3840AN	C	4.750	4.500	2B	4.750	0.687		N/CA/BR
QS-3841AN	C	4.750	2.625	2B	4.750	0.625		N/CA/BR
QS-3262	E	4.500	3.250	3TC	4.781	0.781		B/TC/TC
QS-3499	E	4.500	3.750	3C	4.625	0.562	LC	B/CA/CE
QS-4043	E	4.500	3.250	3C	4.625	0.781	++	B/CA/CE
QS-4856AN	K	4.750	3.625	3SS	4.875	0.750		N/CA/SS
QS-4547N	R	5.125	3.765	3SS	5.125	0.750		N/CA/SS
QS-3553 HC	T	4.500	3.875	3SS	4.781	0.781	HC	B/CA/SS
QS-3645	T	4.500	3.875	3TC	4.625	0.562		B/SC/TC
QS-3684	T	4.625	3.875	3C	4.625	0.562		B/CA/CE
QS-6237	T	4.500	3.875	3TC	4.625	0.562		B/CA/TC
QS-285	U	4.500	3.250	3SS	4.500	0.781		B/CA/SS
QS-3779	V	4.375	2.625	3C	4.625	0.562		B/CA/CE
QS-8054 HC	V	4.500	3.875	3SS	4.781	0.781	HC	B/CA/SS
QS-8127	V	4.500	3.875	3C	4.781	0.781		B/CA/CE
<b>3.750 (3-3/4") SHAFT</b>								
QS-272	C	4.875	2.312	3C	4.625	0.781	++	B/CA/CE
QS-1313A	C	4.875	2.312	3SS	4.625	0.688		B/CA/SS
QS-5740AN	C	4.875	2.625	2SS	4.500	0.531		N/CA/SS
QS-9105AN	C	4.875	2.312	---	---	---		N/CA/---
QS-4010	D	5.406	1.562	3TC	4.625	0.781		B/SC/TC
QS-6203	D	5.250	2.312	3C	4.625	0.781		B/CA/CE
QS-4278	E	4.625	3.250	3C	4.625	0.781		B/CA/CE
QS-4142V	E	4.625	3.812	3SC	4.625	0.856	LC	V/CA/SC
QS-10002	E	4.625	3.375	3C	4.625	0.781		B/CA/CE
QS-3237	K	4.875	2.875	3SC	4.625	0.781		B/SC/SC

NOTE: HC - HARD CARBON  
LC - LOCK COLLAR  
++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>3.750 (3-3/4") (continued)</b>								
QS-3855AV	K	4.875	2.125	2SS	4.750	0.515		V/CA/SS
QS-4798A	L-2	5.000	3.250	25CA	5.625	1.031		B/SS/CA
QS-7986	U	4.625	3.500	3SS	4.625	0.781		B/CA/SS
QS-9708	T9B	4.625	2.062	1SS	4.375	0.781	316SS	CA/SS
QS-8104V	T8-1	4.625	1.687	3C	4.625	0.781	++316SS	V/CA/CE
QS-8700V	T8-1	4.625	1.687	27SS	5.421	1.000	++316SS	V/CA/SS
<b>3.875 (3-7/8") SHAFT</b>								
QS-3845AN	C	5.000	5.625	2B	5.000	0.625		N/CA/BR
QS-3846A	C	5.000	2.250	3SS	4.750	0.781		B/CA/SS
QS-4341AN	D	5.250	2.250	3SS	5.125	0.781		N/CA/SS
QS-10001	E	4.750	2.500	3C	4.750	0.781		B/CA/CE
QS-286	U	4.750	3.375	3SS	4.750	0.781		B/CA/SS
QS-8028 HC	T8-1	4.750	1.688	3SS	4.750	0.781	++316SS/ HC	V/CA/SS
QS-8055 HC	T8-1	4.750	1.688	3C	4.750	0.781	++316SS/ HC	V/CA/CE
<b>4.000 (4") SHAFT</b>								
QS-2719V	D	5.562	2.437	3SC	4.875	0.781		B/CA/SC
QS-7892AV	D	5.375	1.125	3SS	4.884	0.563		V/CA/SS
QS-3257	E	5.312	3.375	3C	4.875	0.781		B/CA/CE
QS-7853	EB	4.880	3.750	3C	4.625	0.781		B/CA/CE
QS-3253	K	5.125	2.875	3TC	4.875	0.781		B/CA/TC

NOTE: HC - HARD CARBON  
++ - SLOTTED SEAT

Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>4.000 (4") (continued)</b>								
QS-3865A	K	5.250	2.250	2SS	5.125	0.515		B/CA/SS
QS-4857AN	K	5.250	4.375	3SS	5.750	1.000		N/CA/SS
QS-1077	R	5.562	3.125	3SS	4.875	0.781		B/CA/SS
QS-9351	T9	4.875	1.687	2C	4.875	0.781	316SS	CA/CE
QS-8563	T8-1	4.875	1.687	5TC	4.875	0.781		V/CA/TC
<b>4.062 SHAFT</b>								
QS-1052AV	Z	6.000	1.550	SEAT UNITIZED WITH SEAL				V/CA/CE
QS-3867AV	Z	6.000	1.550	SEAT UNITIZED WITH SEAL				V/CA/CE
<b>4.125 SHAFT</b>								
QS-3870AN	C	5.375	2.750	---	---	---		N/CA/---
<b>4.250 (4-1/4") SHAFT</b>								
QS-3875A	K	5.580	2.750	2SS	5.500	0.578		B/CA/SS
QS-8126	T8-1	5.250	1.687	3C	5.250	0.781	316SS	V/CA/CE
<b>4.375 (4-3/8") SHAFT</b>								
QS-8060V	T8-1	5.250	1.687	3SS	5.375	0.781	++316SS	V/CA/SS
<b>4.437 SHAFT</b>								
QS-3885AN	C	5.500	2.500	---	---	---		N/CA/---
QS-8060V	T8-1	5.250	1.687	3SS	5.375	0.781	316SS	V/CA/SS
<b>4.500 (4-1/2") SHAFT</b>								
QS-4529	E	5.562	4.812	3C	5.500	0.781	LC	B/CA/CE
<b>4.625 (4-5/8") SHAFT</b>								
QS-7893AV	D	5.750	1.625	3SS	6.250	0.562		V/CA/SS
QS-8083V	T8B1	5.625	2.062	3TC	5.375	0.781	316SS	V/CA/TC

NOTE: LC - LOCK COLLAR  
++ - SLOTTED SEAT



Quantum Part Number	Type	O.D.	OP. Height	Type	C' Bore	Thick	NOTES	Material Code
<b>4.750 (4-3/4") SHAFT</b>								
QS-4199	D	6.500	3.000	3C	5.750	0.781		B/CA/CE
QS-490	E	5.750	3.156	3C	7.000	0.562		B/CA/CE
QS-8067	T8B1	5.750	2.062	3SC	5.500	0.781		B/CA/SC
<b>5.000 (5") SHAFT</b>								
QS-2140	K	6.375	3.780	3SS	6.000	0.781		B/CA/SS
<b>5.250 SHAFT</b>								
QS-7894AV	D	6.375	2.000	3SS	7.000	0.562		V/CA/SS
<b>5.500 (5-1/2") SHAFT</b>								
QS-4430V	C	6.375	2.937	3C	6.000	0.781		V/CA/CE
QS-7895AV	D	6.625	1.625	3SS	7.600	0.563		V/CA/SS
QS-4209	E	6.375	4.125	3C	6.000	0.781		B/CA/CE
QS-20137V-E	E	6.375	4.125	---	---	---		V/CA/---
QS-2140	K	6.375	3.781	3SS	6.000	0.781		B/CA/SS
QS-2741	K	6.375	3.781	3C	6.000	0.781		B/CA/CE
QS-3155	K	6.375	3.625	3SS	6.000	0.781		B/CA/SS
QS-4414-V	V	6.125	4.968	3SC	6.781	0.781		V/CA/SC
QS-4414-V	V	6.125	4.968	---	---	---		V/CA/---
QS-8087V SCTC	T8-1	6.000	1.688	3TC	6.000	0.781	316SS	V/CA/TC
QS-3902AV	Z	7.500	1.500	SEAT UNITIZED WITH SEAL				V/CA/CE
<b>5.625 (5-5/8") SHAFT</b>								
QS-6230V	D	7.687	2.750	3C	6.625	0.781	++	

NOTE: ++ - SLOTTED SEAT