



QuickTurn Machined Seals

Parker EPS Division

Profile Description

Rod Seal PHBR



Description

Function:

The PHBR profile is a compact rod seal designed to act as a buffer seal for the primary rod seal. As a buffer seal, the PHBR profile provides the majority of the rod sealing performance while allowing fluid to bypass and energize the primary rod seal.

Features:

- Very heavy dynamic lip acts as primary seal
- Thin static sealing lip regulates pressure between the buffer ring and rod seal
- Slotted pedestals act as check valve to allow trapped oil back into the system
- O-ring energized, beveled sealing lip produces concentrated contact area for removing fluid from the rod
- Back-up ring prevents extrusion
- Resilon material provides long life, extrusion resistance, low compression set, shock load resistance and increased sealing performance at zero pressure

Application

- Rod sealing in hydraulic cylinders
- Designed for use with the PHBT rod seal for more critical sealing applications

See additional description of BR Profile features in Parker's Fluid Power Seal Design Guide, Catalog EPS 5370.

Maximum operating conditions:

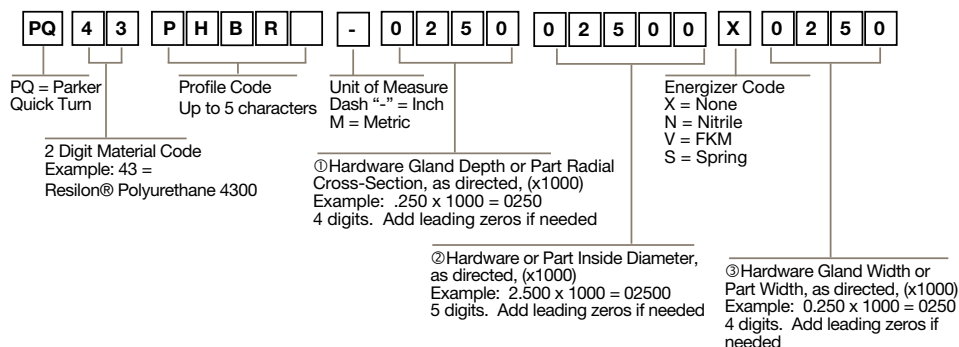
Correlated to profile and seal material types shown below:

Material	Temp Range °C	Max Pressure (bar)*	Max Surface Speed (m/sec)
PU / (Resilon® 4300	-54 to 135	344	0.5
PU / Resilon® 4350	-54 to 149	344	0.5
POM (Back-up Ring)	-54 to 93	688	0.5

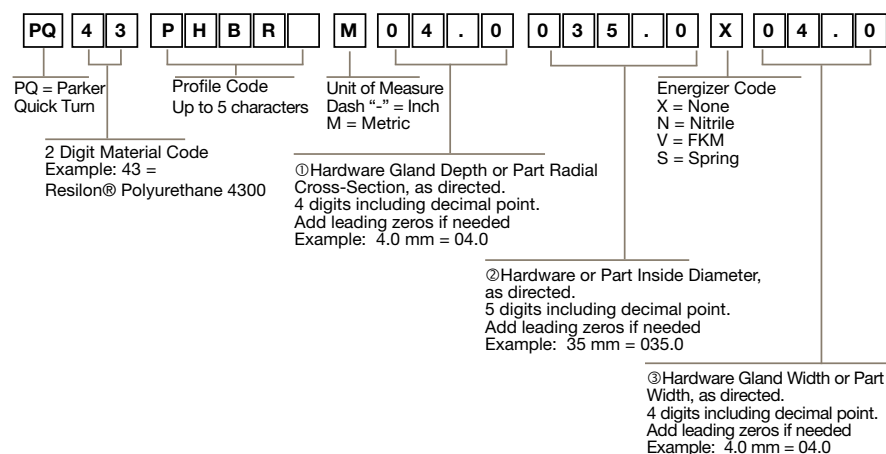
*Max pressure without wear rings. If used with wear rings, see Table 2-4, Page 2-5 of Parker's Fluid Power Seal Design Guide, Catalog EPS 5370.

Part Numbering

Part Number Nomenclature – Inch



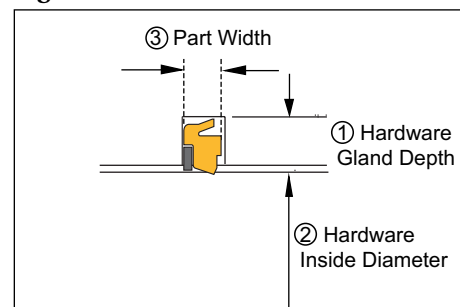
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



NOTE: All sales subject to Parker standard terms of sale (see www.parker.com/saleterms)

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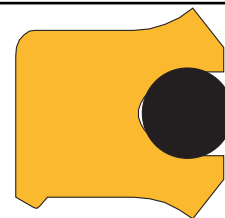


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Rod Seal PHBD



Description

Function:

Rod seals are designed to seal the pressurized hydraulic fluid against the atmosphere, preventing leakage and pollution of the environment.

Features:

- Non-symmetrical, single acting rod seal, designed with rectangular shaped cross-section and interference on the OD which provides a good static fit in the groove
- O-ring energized, beveled sealing lip produces concentrated contact area for removing fluid from the rod
- Secondary stabilizing lip is located at the base of the heel
- Provides long life, extrusion resistance, low compression set, shock load resistance and increased sealing performance at zero pressure

Application

- Rod sealing in hydraulic cylinders, plungers
- The PHBD profile is designed for use as a stand alone rod seal or for use with the PHBR or RS09B profile rod buffer seals for more critical sealing applications

Maximum operating conditions:

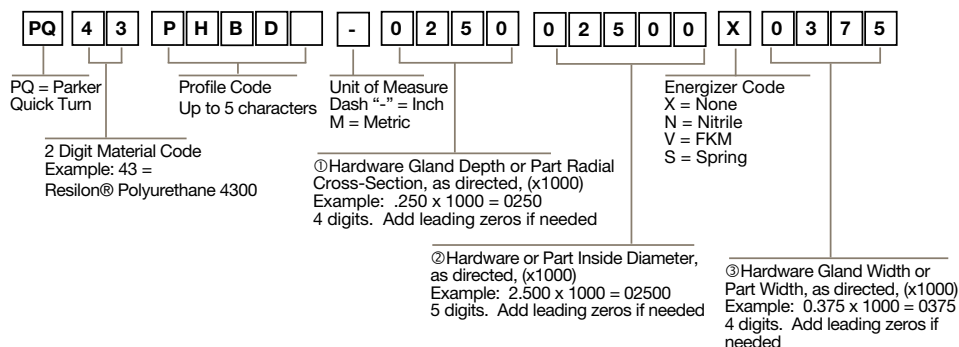
Correlated to profile and seal material types shown below:

Material	Temp Range °C	Max Pressure (bar)*	Max Surface Speed (m/sec)
PU (Resilon® 4300)	-54 to 135	344	0.5
PU / Resilon® 4350	-54 to 149	344	0.5

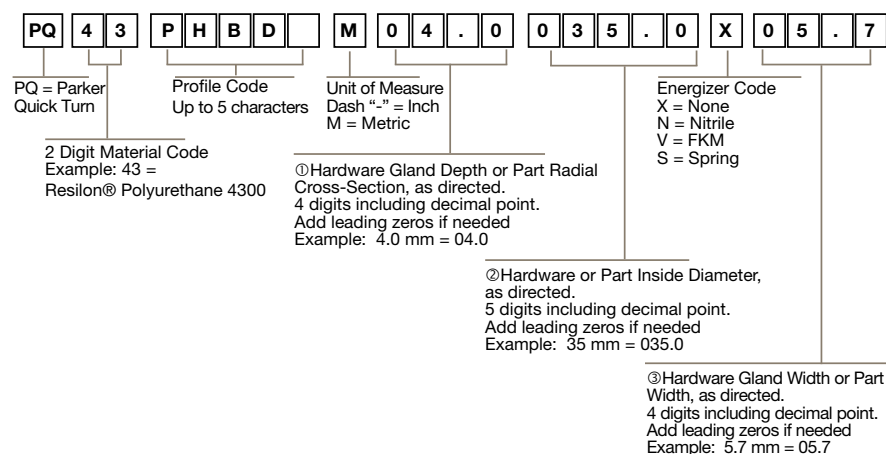
*Max pressure without wear rings. If used with wear rings, see Table 2-4, Page 2-5 of Parker's Fluid Power Seal Design Guide, Catalog EPS 5370.

Part Numbering

Part Number Nomenclature – Inch



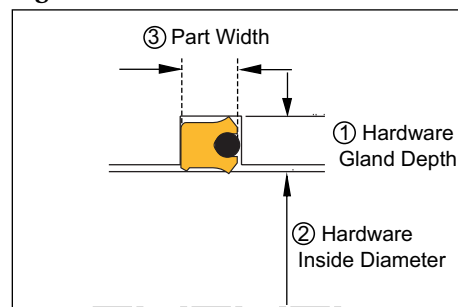
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



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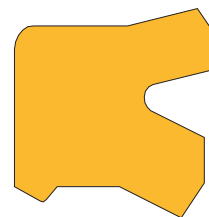


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Rod Seal PHBT



Description

Function:

Rod seals are designed to seal the pressurized hydraulic fluid against the atmosphere, preventing leakage and pollution of the environment.

Features:

- Non-symmetrical, single acting rod seal, designed with interference on the OD which provides a good static fit in the groove
- Robust primary beveled sealing lip produces concentrated contact area for removing fluid from the rod
- Secondary stabilizing lip is located at the base of the heel
- Provides long life, extrusion resistance, low compression set, shock load resistance and increased sealing performance at zero pressure

Application

- Rod sealing in hydraulic cylinders, plungers
- The PHBT profile is designed for use as a stand alone rod seal or for use with the PHBR or RS09B profile rod buffer seals for more critical sealing applications

Maximum operating conditions:

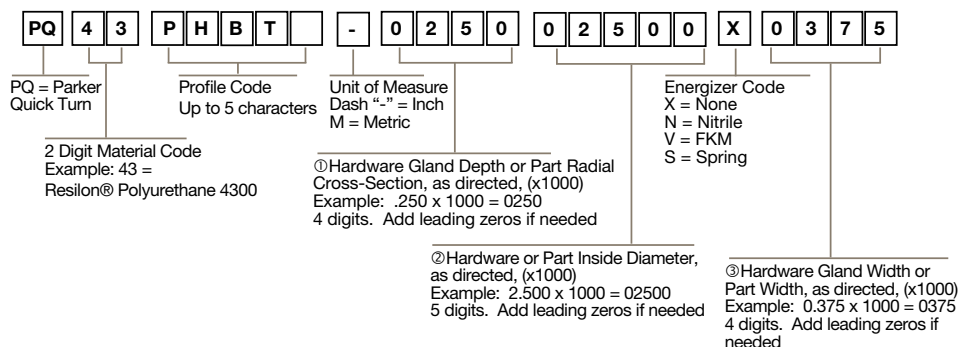
Correlated to profile and seal material types shown below:

Material	Temp Range °C	Max Pressure (bar)*	Max Surface Speed (m/sec)
PU (Resilon® 4300)	-54 to 135	344	0.5
PU / Resilon® 4350	-54 to 149	344	0.5

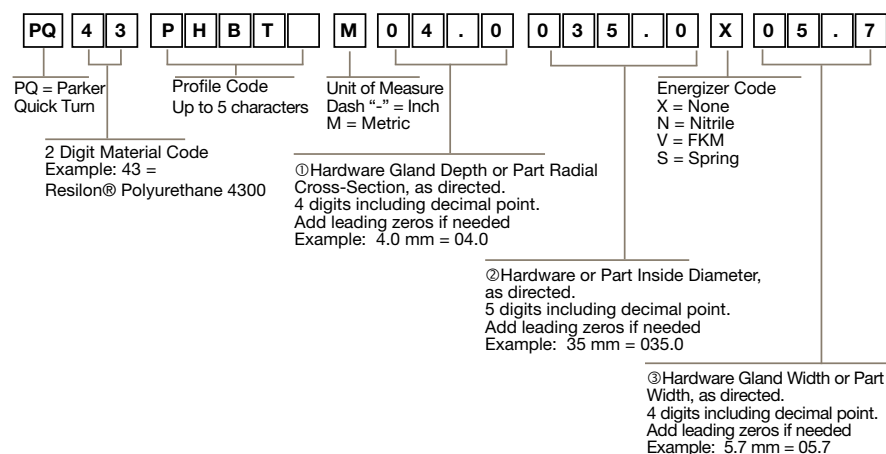
*Max pressure without wear rings. If used with wear rings, see Table 2-4, Page 2-5 of Parker's Fluid Power Seal Design Guide, Catalog EPS 5370.

Part Numbering

Part Number Nomenclature – Inch



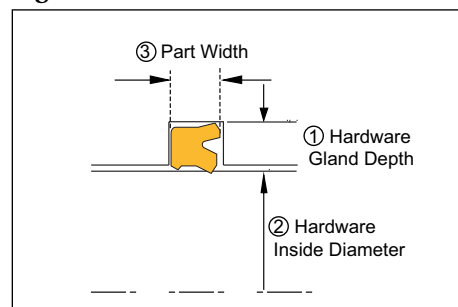
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



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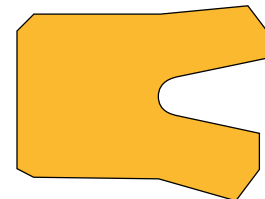


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Rod Seal RS01



Description

Function:

Rod seals are designed to seal the pressurized hydraulic fluid against the atmosphere, preventing leakage and pollution of the environment.

Features:

- Asymmetrical, single acting rod seal, designed with interference on the OD which provides a good static fit in the groove
- Dynamic sealing lip shorter than static lip to avoid drag pressure
- Excellent static and dynamic sealing performance
- Useable for long stroke lengths
- Negligible tendency to “stick-slip” effect above a speed of 0.15 m/s
- For lower speeds the dynamic lip should be redesigned (shorter, stiffer)

Application

- Reciprocating rods in hydraulic cylinders, plungers
- Universal rod seal for small extrusion gaps and minor load impacts
- Also used as secondary seal in combination with RS09 (PTFE + o-ring energizer)

Maximum operating conditions:

Correlated to profile and seal material types shown below:

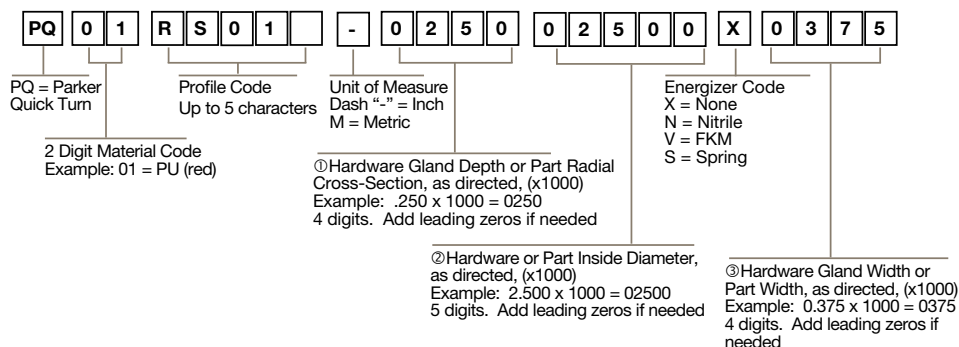
Material	Max Pressure (bar)	Max Surface Speed (m/sec)
PU	400	0.5
NBR	160	0.5
FKM	160	0.5

Similar in profile geometry to Parker B3 Profile.*

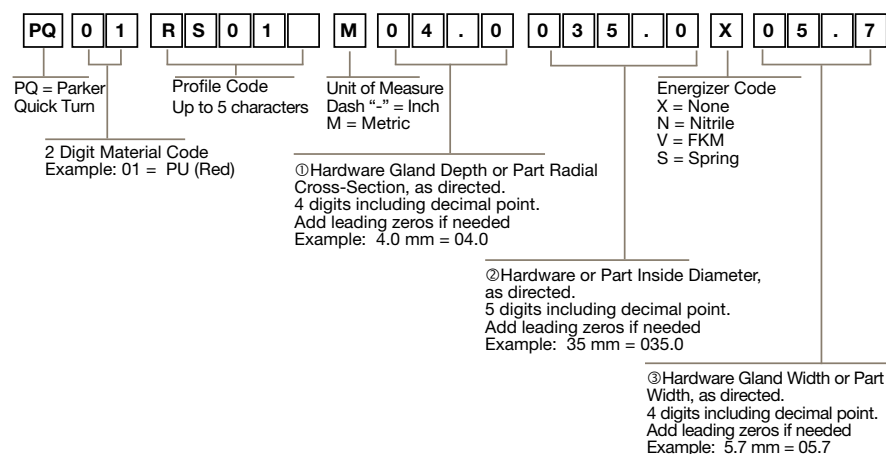
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



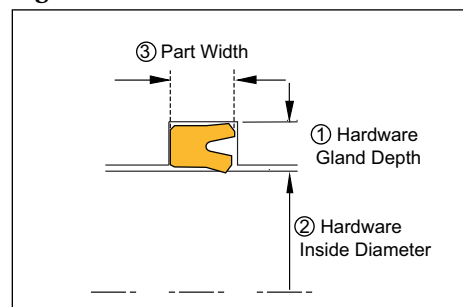
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



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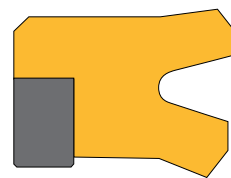


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Rod Seal RS02A



Description

Function:

Rod seals are designed to seal the pressurized hydraulic fluid against the atmosphere, preventing leakage and pollution of the environment.

Features:

- Asymmetrical, single acting rod seal, designed with interference on the OD which provides a good static fit in the groove
- Dynamic sealing lip shorter than static lip to avoid drag pressure
- Excellent static and dynamic sealing performance
- Useable for long stroke lengths
- Negligible tendency to “stick-slip” effect above a speed of 0.15 m/s
- For lower speeds the dynamic lip should be redesigned (shorter, stiffer)
- Activated back-up rings prevent and reduce gap extrusion

Application

- Reciprocating rods in hydraulic cylinders, plungers
- Universal rod seal for small extrusion gaps and minor load impacts

Maximum operating conditions:

Correlated to profile and seal material types shown below:

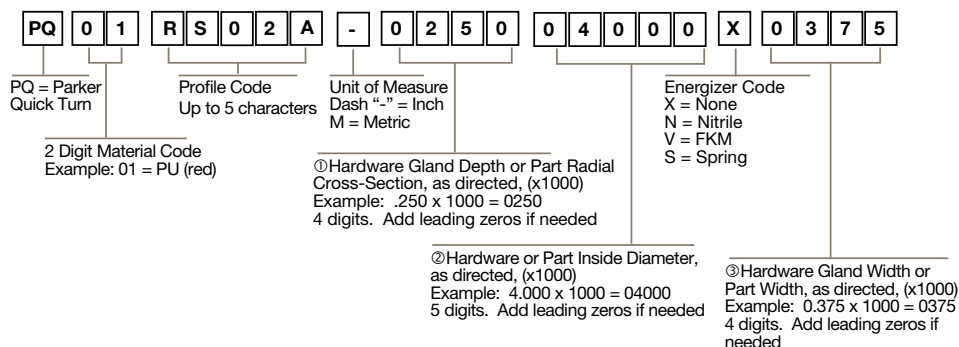
Material	Max Pressure (bar)	Max Surface Speed (m/sec)
PU/POM	700	0.5
NBR/POM	250	0.5
FKM/PTFE	250	0.5

Similar in profile geometry to Parker B3 with back-up Profile with .*

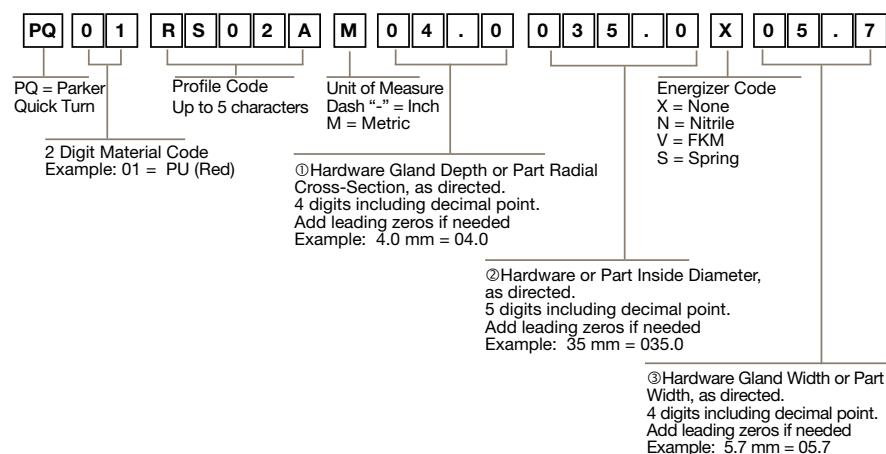
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



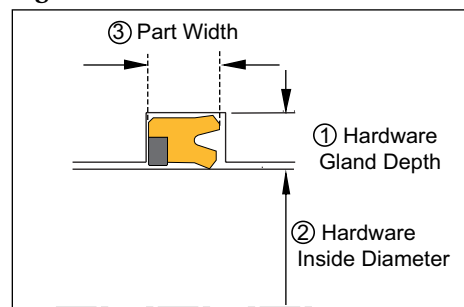
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



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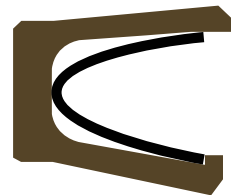


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Rod Seal RS19



Description

Function:

Rod seals are designed to seal the pressurized hydraulic fluid against the atmosphere or between two pressurized spaces..

Features:

- Asymmetrical, single acting rod seal, designed with no interference on the static sealing diameter
- Preload effected through V-spring
- Dynamic sealing lip shorter than static lip to avoid drag pressure
- Excellent static and dynamic sealing performance
- Useable for short and long stroke lengths
- Low friction in dry running or poor lubrication conditions
- Negligible tendency to “stick-slip” effect, small break away loads

Application

- Reciprocating and swivelling rods in hydraulic cylinders, plungers
- Chemical and pharmaceutical industry, aggressive fluids and high temp

Maximum operating conditions:

Correlated to profile and seal material types shown below:

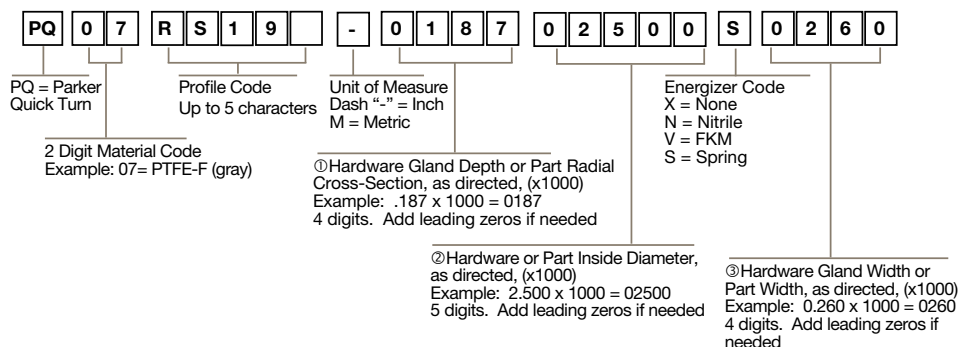
Material	Max Pressure (bar)	Max Surface Speed (m/sec)
PTFE-Virgin /V spring	200	15
PTFE-filled /V SPRING	400	15

Similar in profile geometry to Parker FRS-V FlexiSeal™ Profile.*

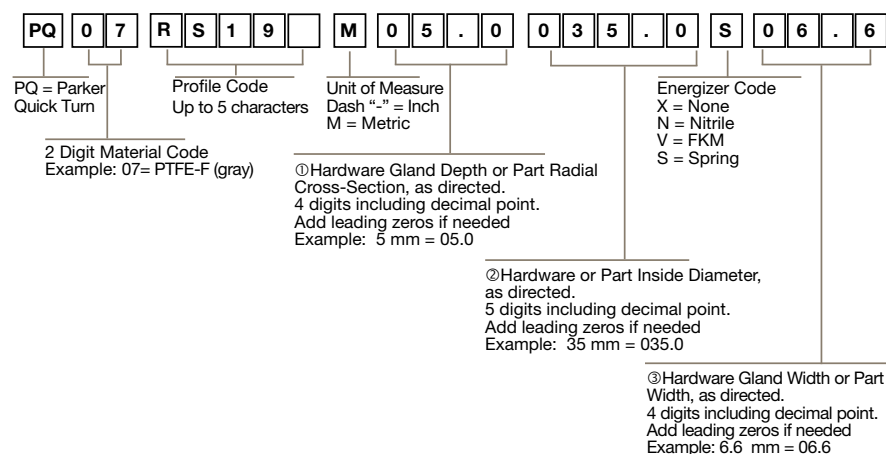
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



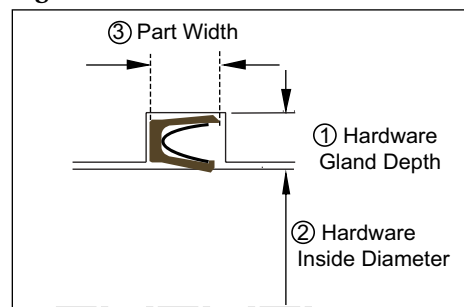
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



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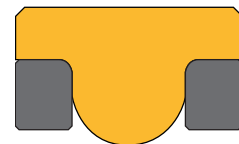


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Rod Seal RS20



Description

Function:

Rod seals are designed to seal the pressurized hydraulic fluid against the atmosphere, preventing leakage and pollution of the environment.

Features:

- Asymmetrical, double acting compact rod seal, designed with interference on the OD which provides a good static fit in the groove
- Excellent static and dynamic sealing performance
- Excellent performance in low pressure conditions
- Negligible tendency to “stick-slip” effect
- High break-away load after long standstills
- Activated back-up rings reduce gap extrusion and prevent twisting of the seal in the groove

Application

- Reciprocating rods in hydraulic cylinders, plungers
- Static and dynamic seals in hydraulic systems, replacement for o-rings (no twisting or pumping)

Maximum operating conditions:

Correlated to profile and seal material types shown below:

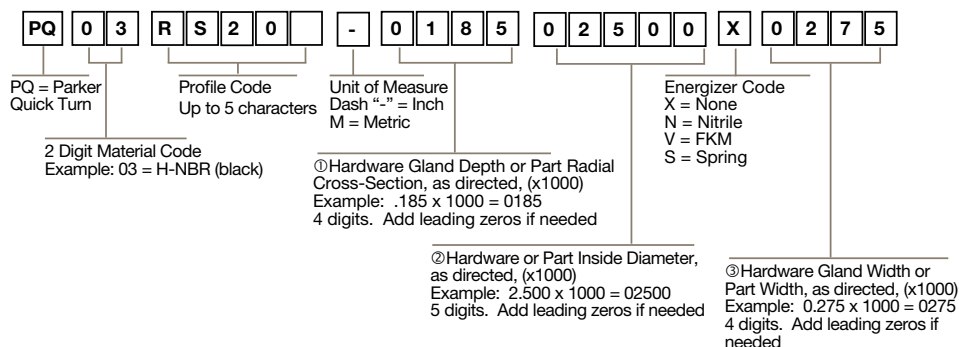
Material	Max Pressure (bar)	Max Surface Speed (m/sec)
NBR/POM	700	0.5

Similar in profile geometry to Parker TR Profile.*

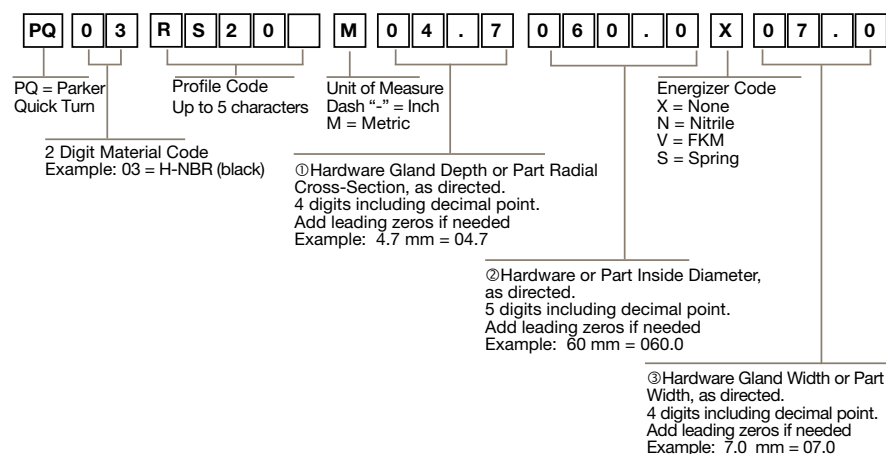
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



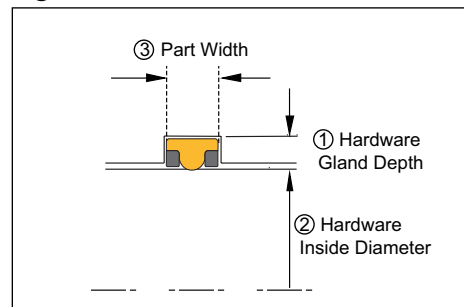
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



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EPS-5252-RS20

10/2017

TMR/POD

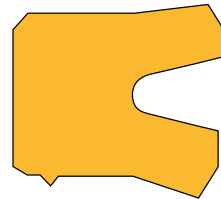


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Rod Seal RS17



Description

Function:

Rod seals are designed to seal the pressurized hydraulic fluid against the atmosphere, preventing leakage and pollution of the environment.

Features:

- Asymmetrical, single acting rod seal, designed with interference on the OD which provides a good static fit in the groove
- Dynamic sealing lip shorter than static lip to avoid drag pressure
- Secondary lip for stabilising at large seal heights and reducing the residual oil film
- Excellent static and dynamic sealing performance
- Useable for long stroke lengths
- Negligible tendency to “stick-slip” effect above a speed of 0.15 m/s

Application

- Reciprocating rods in hydraulic cylinders, plungers
- Mainly used in telescoping cylinders

Maximum operating conditions:

Correlated to profile and seal material types shown below:

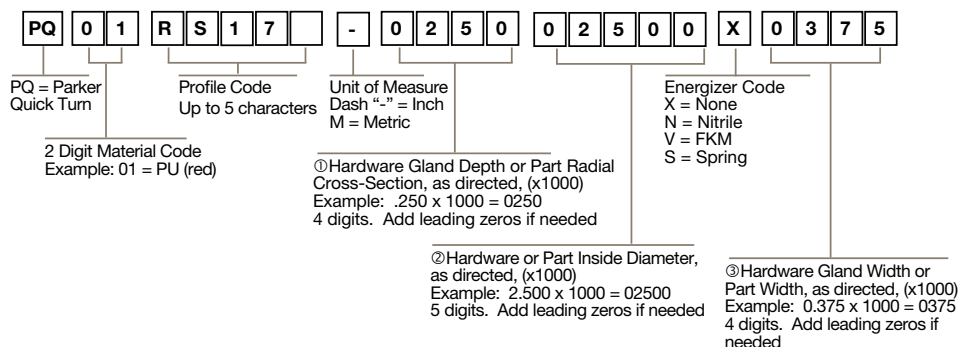
Material	Max Pressure (bar)	Max Surface Speed (m/sec)
PU	400	0.5

Similar in profile geometry to Parker BT Profile.*

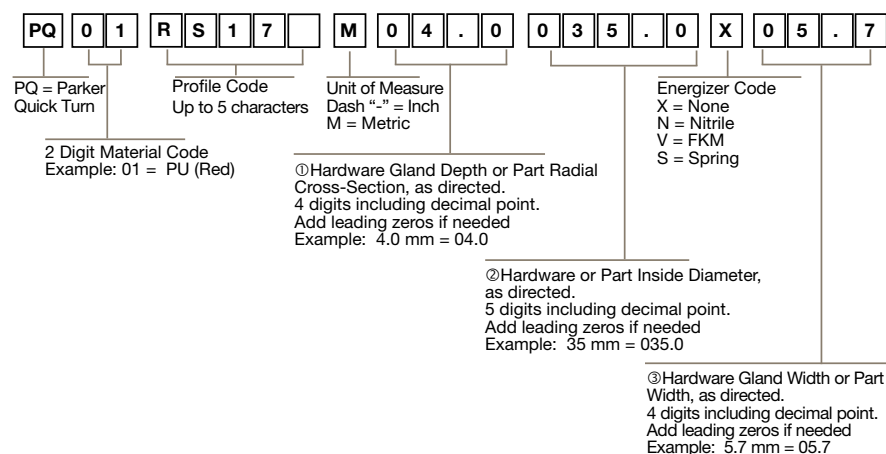
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



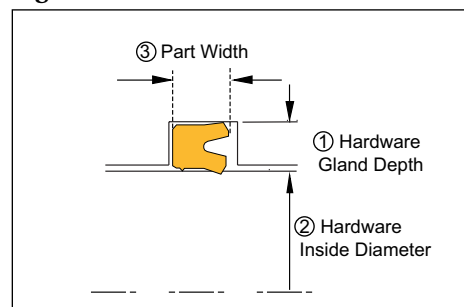
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



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EPS-5252-RS17

10/2017

TMR/POD

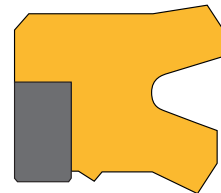


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Rod Seal RS17A



Description

Function:

Rod seals are designed to seal the pressurized hydraulic fluid against the atmosphere, preventing leakage and pollution of the environment.

Features:

- Asymmetrical, single acting rod seal, designed with interference on the OD which provides a good static fit in the groove
- Dynamic sealing lip shorter than static lip to avoid drag pressure
- Secondary lip for stabilising at large seal heights and reducing the residual oil film
- Activated back-up ring prevents and reduces gap extrusion
- Excellent static and dynamic sealing performance
- Useable for long stroke lengths
- Negligible tendency to “stick-slip” effect above a speed of 0.15 m/s

Application

- Reciprocating rods in hydraulic cylinders, plungers
- Mainly used in telescoping cylinders

Maximum operating conditions:

Correlated to profile and seal material types shown below:

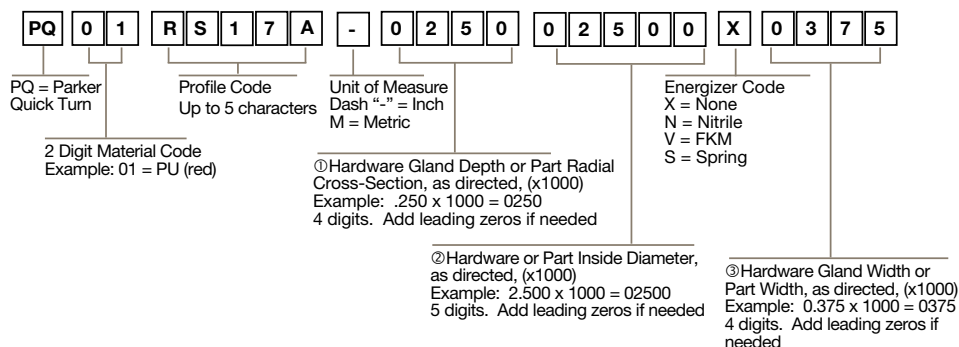
Material	Max Pressure (bar)	Max Surface Speed (m/sec)
PU/POM	700	0.5

Similar in profile geometry to Parker BT with Back-Up Profile.*

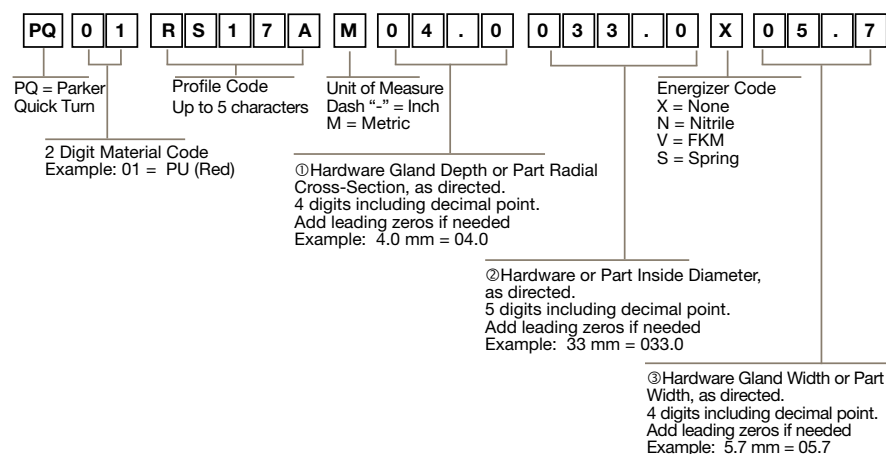
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



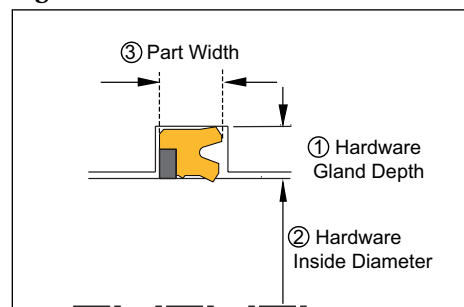
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



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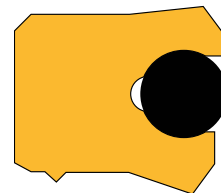


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Rod Seal RS17B



Description

Function:

Rod seals are designed to seal the pressurized hydraulic fluid against the atmosphere, preventing leakage and pollution of the environment.

Features:

- Asymmetrical, single acting rod seal, designed with interference on the OD which provides a good static fit in the groove
- Dynamic sealing lip shorter than static lip to avoid drag pressure
- Increased preload due to an additional o-ring
- Secondary lip for stabilizing at large seal heights and reducing the residual oil film
- Excellent static and dynamic sealing performance
- Excellent performance in all pressure ranges
- No reverse leakage when changing direction
- Recommended for positioning or holding under pressure

Application

- Reciprocating rods in hydraulic cylinders, plungers, push rods, telescoping cylinders, fittings, etc
- Switching or clamping functions

Maximum operating conditions:

Correlated to profile and seal material types shown below:

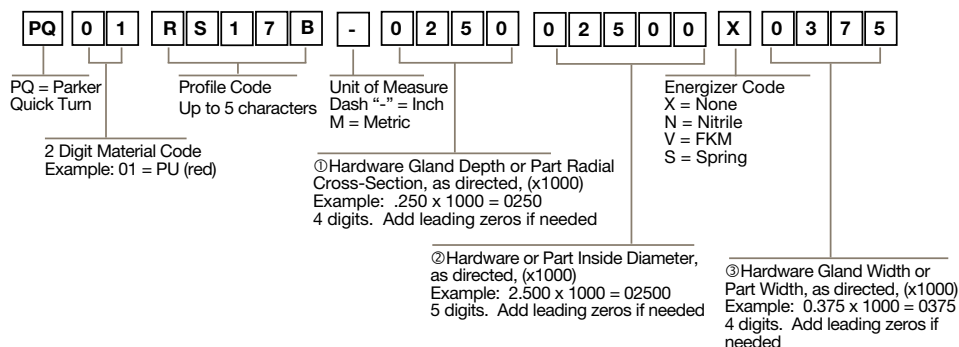
Material	Max Pressure (bar)	Max Surface Speed (m/sec)
PU/NBR	400	0.5

Similar in profile geometry to Parker BD Profile.*

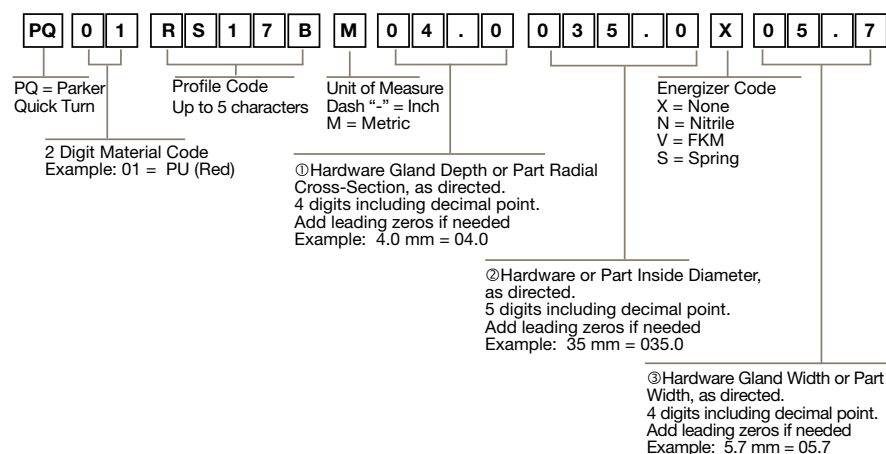
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



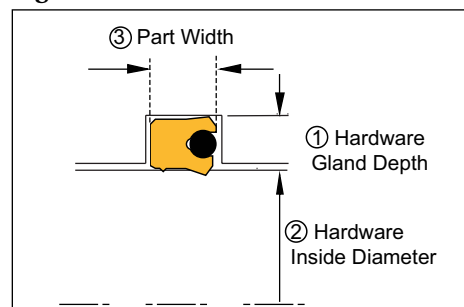
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



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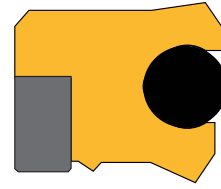


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Rod Seal RS17C



Description

Function:

Rod seals are designed to seal the pressurized hydraulic fluid against the atmosphere, preventing leakage and pollution of the environment.

Features:

- Asymmetrical, single acting rod seal, designed with interference on the OD which provides a good static fit in the groove
- Dynamic sealing lip shorter than static lip to avoid drag pressure
- Increased preload due to an additional o-ring
- Activated back-up ring prevents and reduces gap extrusion
- Secondary lip for stabilizing at large seal heights and reducing the residual oil film
- Excellent static and dynamic sealing performance
- Excellent performance in all pressure ranges
- No reverse leakage when changing direction
- Recommended for positioning or holding under pressure

Application

- Reciprocating rods in hydraulic cylinders, plungers, push rods, telescoping cylinders, fittings, etc
- Switching or clamping functions

Maximum operating conditions:

Correlated to profile and seal material types shown below:

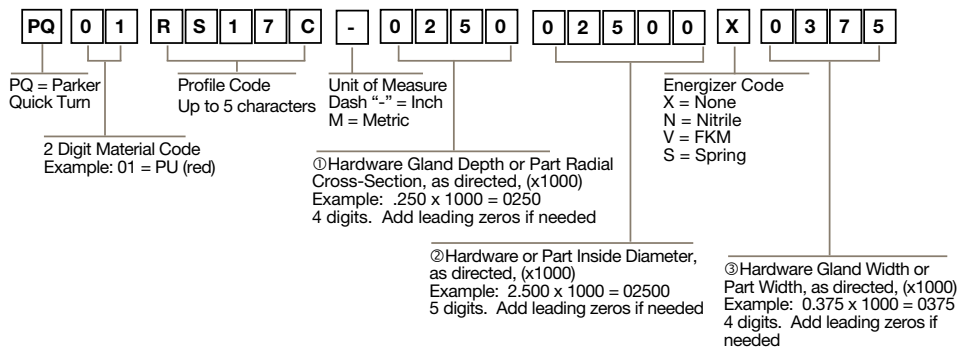
Material	Max Pressure (bar)	Max Surface Speed (m/sec)
PU/NBR/POM	700	0.5

Similar in profile geometry to Parker BD Profile with Back-up.*

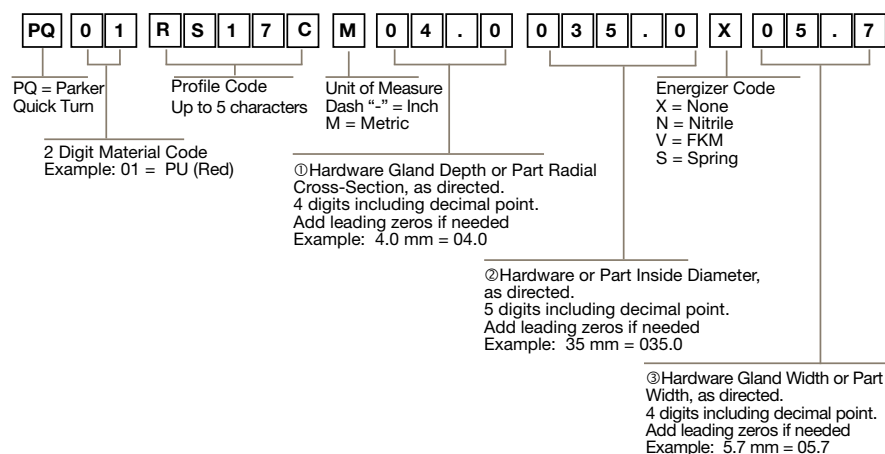
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



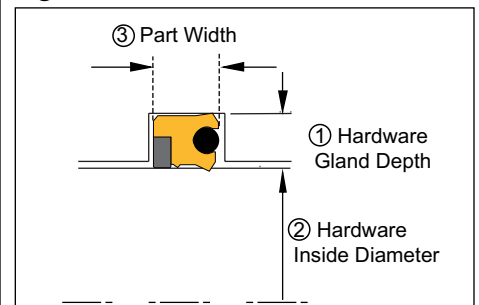
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



NOTE: All sales subject to Parker standard terms of sale (see www.parker.com/saleterms)

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QuickTurn Machined Seals

Parker EPS Division

Profile Description

Rod Seal RS09A



Description

Function:

Rod seals are designed to seal the pressurized hydraulic fluid against the atmosphere, preventing leakage and pollution of the environment.

Features:

- Symmetrical, double acting rod seal, designed with interference of the o-ring
- on the OD and slight interference of the PTFE glide ring on the ID
- Excellent sealing performance in low and high speeds
- Suitable for positioning functions
- Negligible tendency to “stick-slip” effect, good sliding properties
- Low break-away load after long standstills
- Excellent gap extrusion resistance

Application

- Reciprocating rods in hydraulic cylinders, plungers
- Dynamic seals in hydraulic systems.

Maximum operating conditions:

Correlated to profile and seal material types shown below:

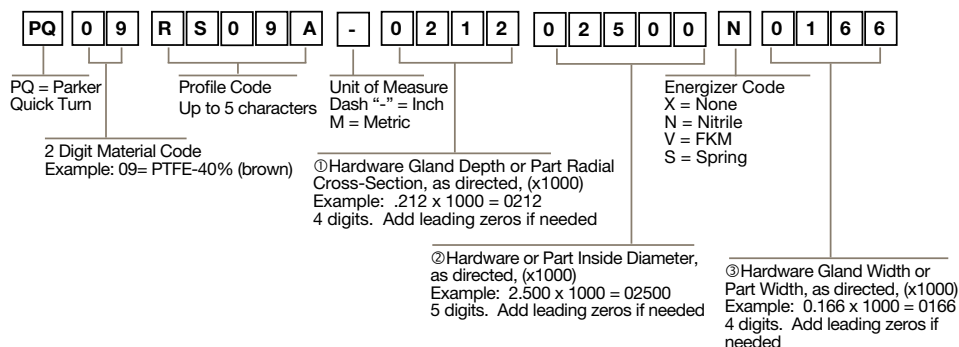
Material	Max Pressure (bar)	Max Surface Speed (m/sec)
PTFE/NBR	400	10

Similar in profile geometry to Parker ON Profile.*

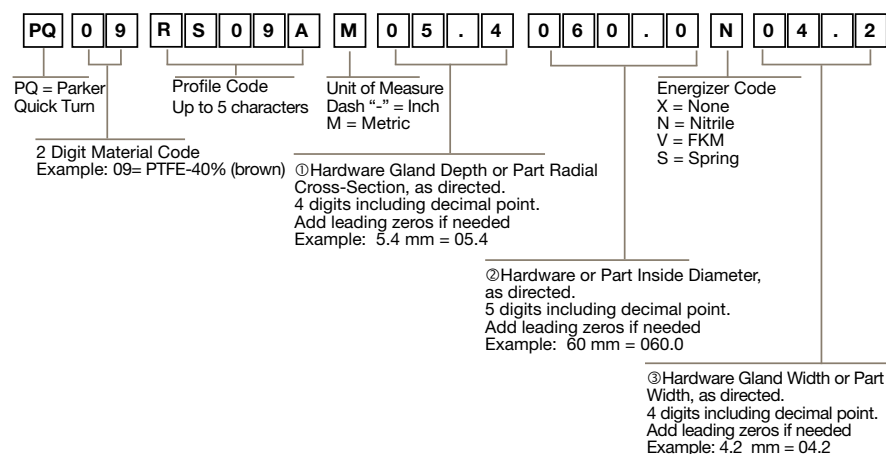
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



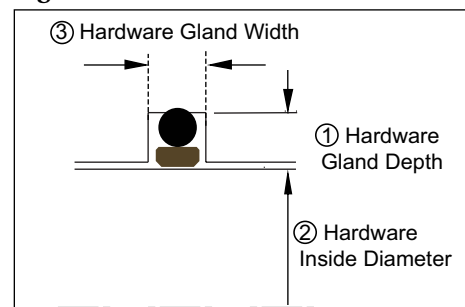
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



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QuickTurn Machined Seals

Parker EPS Division

Profile Description

Rod Seal RS09B



Description

Function:

Rod seals are designed to seal the pressurized hydraulic fluid against the atmosphere, preventing leakage and pollution of the environment.

Features:

- Asymmetrical, single acting rod seal, designed with interference of the O-Ring on the OD and slight interference of the PTFE glide ring on the ID
- Excellent sealing performance in low and high speeds
- Suitable for positioning functions
- Negligible tendency to “stick-slip” effect, good sliding properties
- Low break-away load after long standstills
- Excellent gap extrusion resistance due to the free space on the trailing side

Application

- Reciprocating rods in hydraulic cylinders, plungers
- Dynamic seals in hydraulic systems

Maximum operating conditions:

Correlated to profile and seal material types shown below:

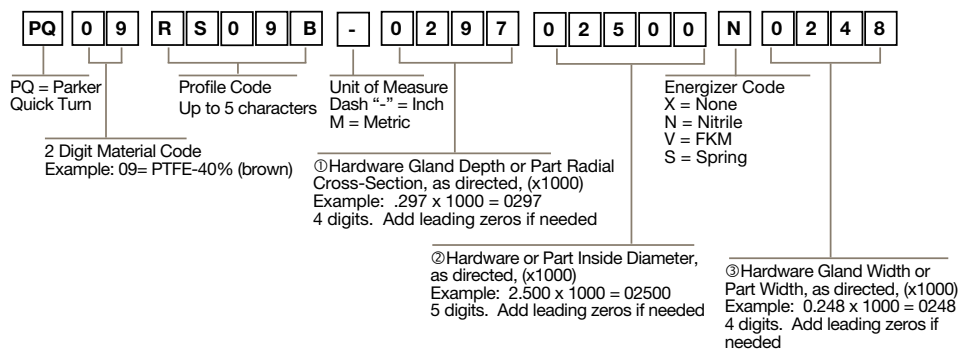
Material	Max Pressure (bar)	Max Surface Speed (m/sec)
PTFE/NBR	400	10

Similar in profile geometry to Parker OD Profile.*

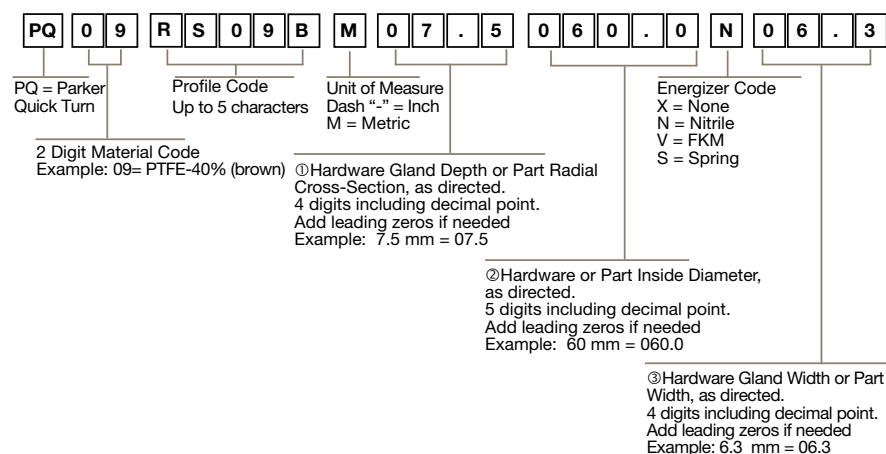
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



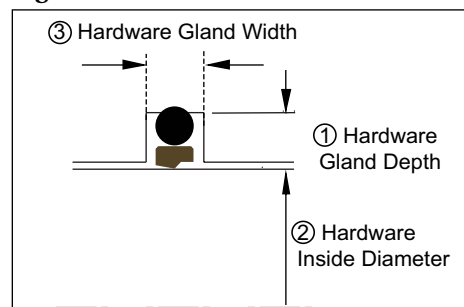
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



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QuickTurn Machined Seals

Parker EPS Division

Profile Description

Piston Seal PHPSP



Description

Function:

The PHBR profile is a squeeze-type, bi-directional piston seal for use in light to medium-duty hydraulic applications.

Features:

- Symmetrical, positive sealing points with lubrication pocket provides non-drift seal performance with lower friction than dual seals
- Elastomer energizer ensures resistance to compression set for longer seal life
- Resilon material provides long life, abrasion resistance, extrusion resistance, and low compression set
- Easy to install and resists rolling and twisting in long stroke applications

Application

- Piston sealing in hydraulic cylinders

See additional description of PSP Profile features in Parker's Fluid Power Seal Design Guide, Catalog EPS 5370.

Maximum operating conditions:

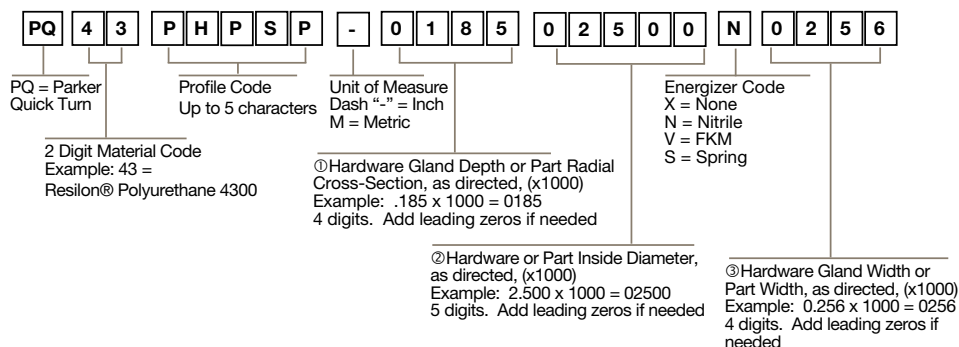
Correlated to profile and seal material types shown below:

Material	Temp Range °C	Max Pressure (bar)*	Max Surface Speed (m/sec)
PU / (Resilon® 4300	-54 to 135	344	0.5
PU / Resilon® 4350	-54 to 149	344	0.5
NBR (Ener-gizer)	-34 to 121		

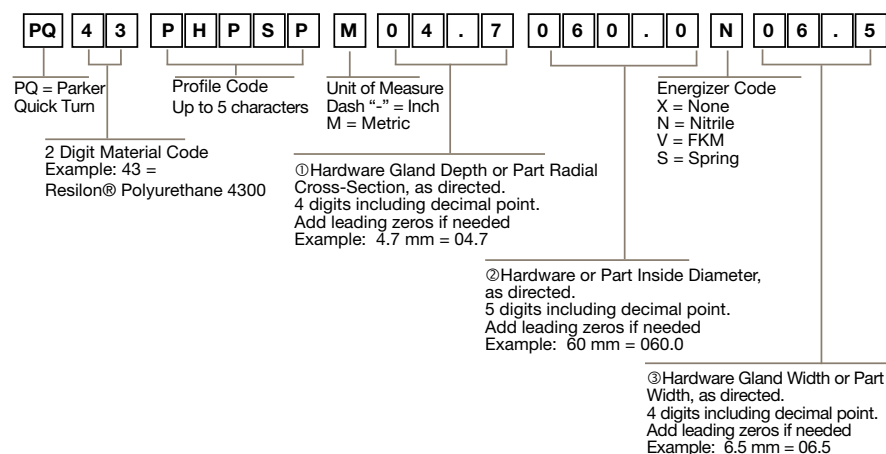
*Max pressure without wear rings. If used with wear rings, see Table 2-4, Page 2-5 of Parker's Fluid Power Seal Design Guide, Catalog EPS 5370.

Part Numbering

Part Number Nomenclature – Inch



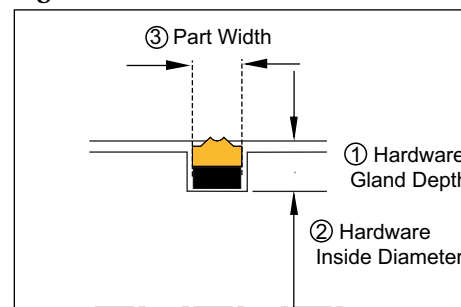
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



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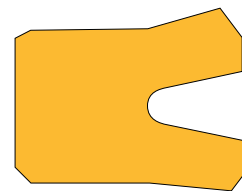


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Piston Seal PS01



Description

Function:

Piston seals are designed to seal the pressurized hydraulic fluid against the atmosphere or between two pressurized spaces..

Features:

- Asymmetrical, single acting piston seal, designed with interference on the ID which provides a good static fit in the groove
- Dynamic sealing lip shorter than static lip to avoid drag pressure
- Excellent static and dynamic sealing performance
- Useable for long stroke lengths
- Negligible tendency to “stick-slip” effect above a speed of 0.15 m/s
- For lower speeds the dynamic lip should be redesigned (shorter, stiffer)

Application

- Reciprocating pistons in hydraulic cylinders, plungers
- Universal piston seal for small extrusion gaps and minor load impacts.

Maximum operating conditions:

Correlated to profile and seal material types shown below:

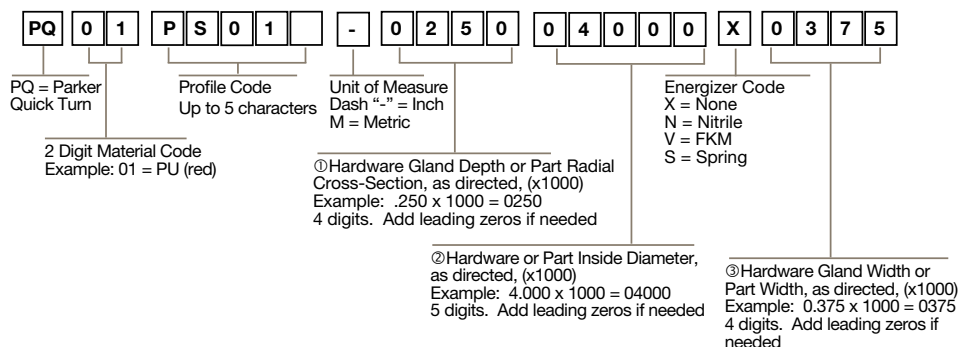
Material	Max Pressure (bar)	Max Surface Speed (m/sec)
PU	400	0.5
NBR	160	0.5
FKM	160	0.5

Similar in profile geometry to Parker B7 Profile.*

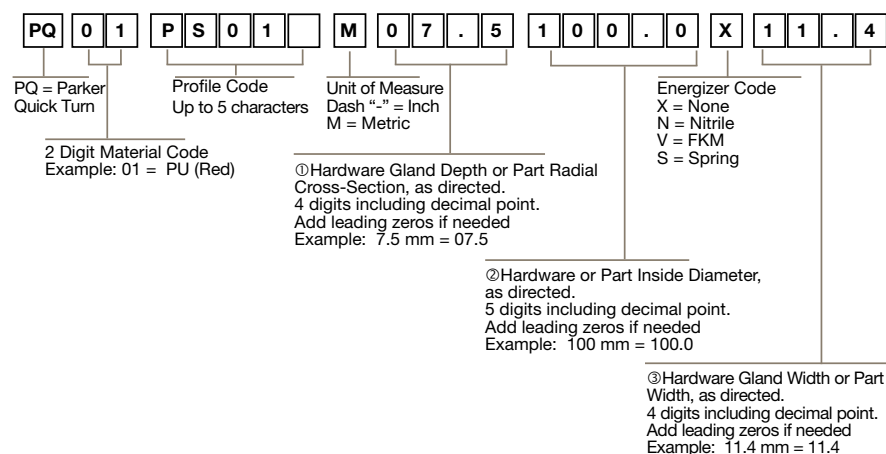
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



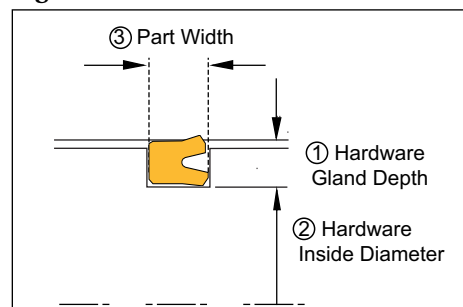
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



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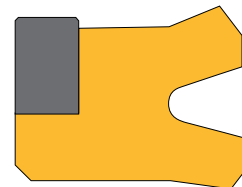


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Piston Seal PS02A



Description

Function:

Piston seals are designed to seal the pressurized hydraulic fluid against the atmosphere or between two pressurized spaces..

Features:

- Asymmetrical, single acting piston seal, designed with interference on the which provides a good static fit in the groove
- Dynamic sealing lip shorter than static lip to avoid drag pressure. Excellent static and dynamic sealing performance
- Useable for long stroke lengths
- Negligible tendency to “stick-slip” effect above a speed of 0.15 m/s
- For lower speeds the dynamic lip should be redesigned (shorter, stiffer)
- Activated back-up rings prevent and reduce gap extrusion.

Application

- Reciprocating pistons in hydraulic cylinders, plungers
- Universal piston seal for small extrusion gaps and minor load impacts

Maximum operating conditions:

Correlated to profile and seal material types shown below:

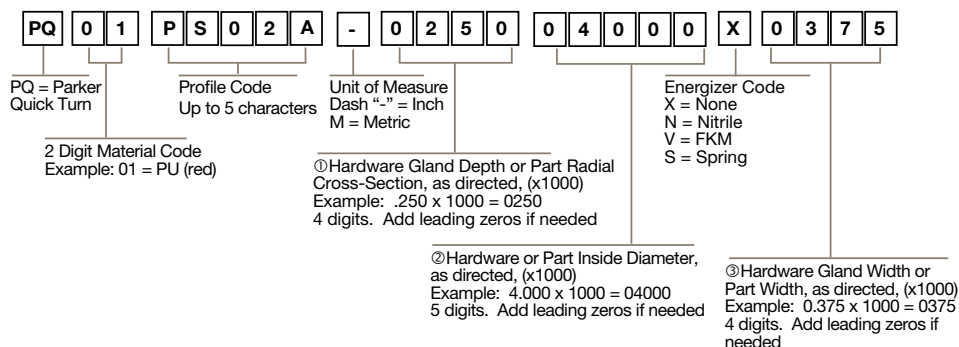
Material	Max Pressure (bar)	Max Surface Speed (m/sec)
PU/POM	700	0.5
NBR/POM	250	0.5
FKM/PTFE	250	0.5

Similar in profile geometry to Parker B7 Profile with Back-up.*

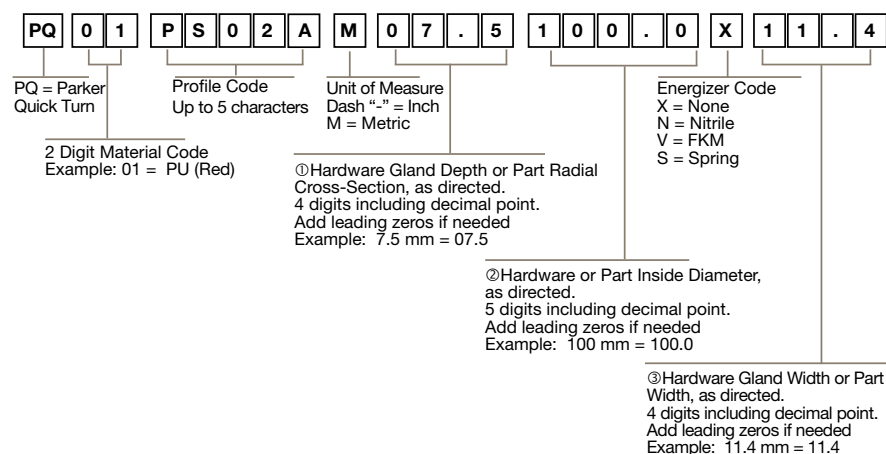
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



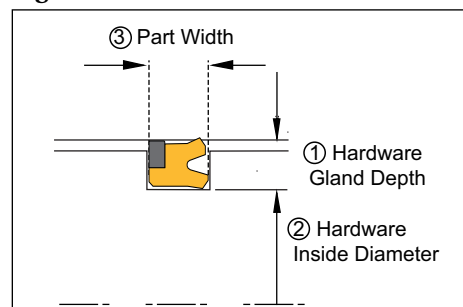
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



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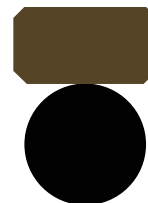


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Piston Seal PS08



Description

Function:

Piston seals are designed to seal the pressurized hydraulic fluid against the atmosphere or between two pressurized spaces..

Features:

- Symmetrical, double acting piston seal, designed with interference of the o-ring on the ID and slight interference of the PTFE glide ring on the OD
- Excellent sealing performance in low and high speeds
- Suitable for positioning functions
- Negligible tendency to “stick-slip” effect, good sliding properties
- Low break-away load after long standstills
- Excellent gap extrusion resistance

Application

- Reciprocating pistons in hydraulic cylinders, plungers
- Dynamic seals in hydraulic systems

Maximum operating conditions:

Correlated to profile and seal material types shown below:

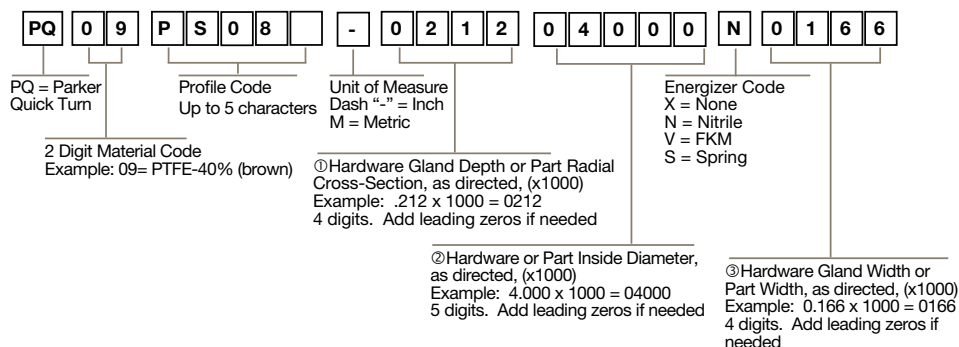
Material	Max Pressure (bar)	Max Surface Speed (m/sec)
PTFE/NBR	400	15

Similar in profile geometry to Parker OE Profile.*

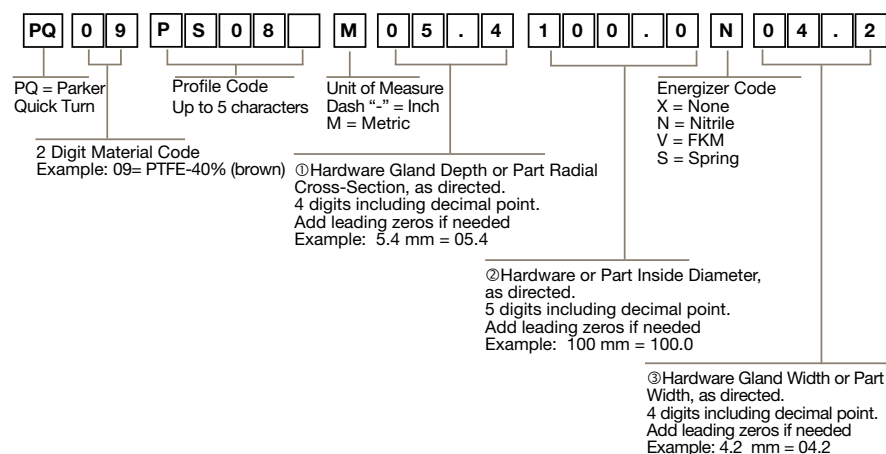
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



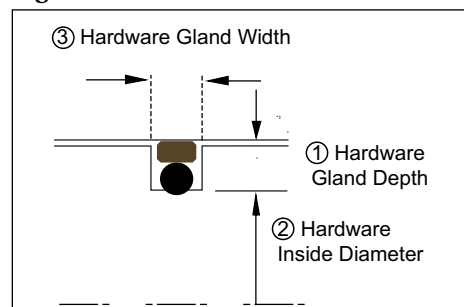
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



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QuickTurn Machined Seals

Parker EPS Division

Profile Description

Piston Seal PS08B



Description

Function:

Piston seals are designed to seal the pressurized hydraulic fluid against the atmosphere or between two pressurized spaces..

Features:

- Asymmetrical, single acting piston seal, designed with interference of the o-ring on the ID and slight interference of the PTFE glide ring on the OD
- Excellent sealing performance in low and high speeds
- Suitable for positioning functions
- Negligible tendency to “stick-slip” effect, good sliding properties
- Low break-away load after long standstills
- Excellent gap extrusion resistance due to the free space on the trailing side

Application

- Reciprocating pistons in hydraulic cylinders, plungers
- Dynamic seals in hydraulic systems
- Tandem arrangement possible

Maximum operating conditions:

Correlated to profile and seal material types shown below:

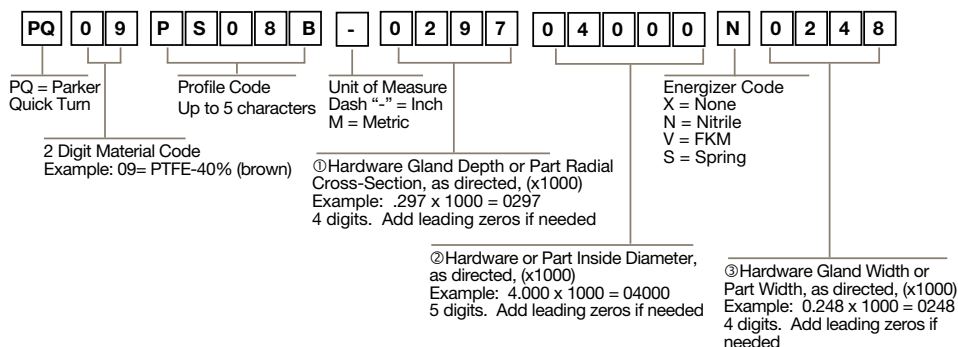
Material	Max Pressure (bar)	Max Surface Speed (m/sec)
PTFE/NBR	400	10

Similar in profile geometry to Parker OG Profile.*

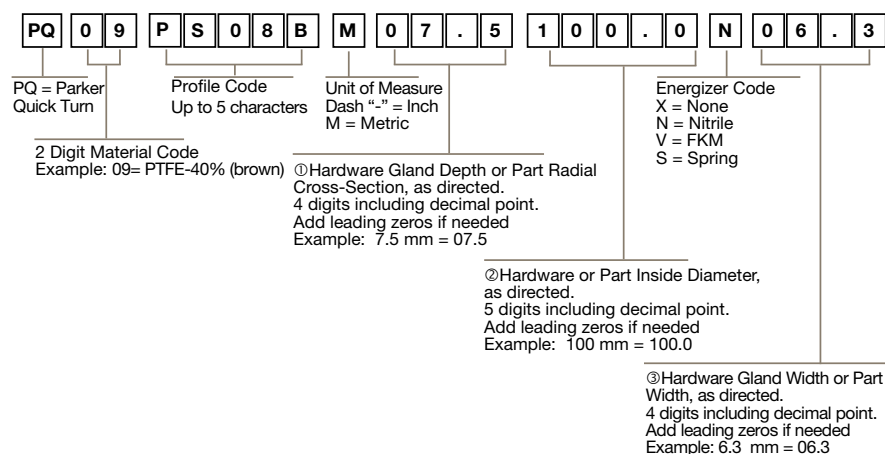
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



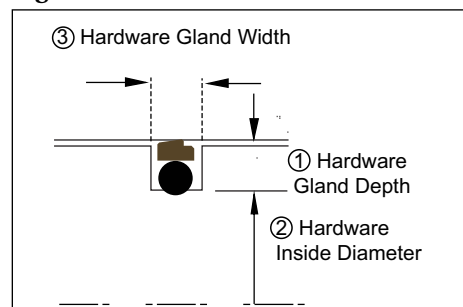
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



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QuickTurn Machined Seals

Parker EPS Division

Profile Description

Piston Seal PS08C



Description

Function:

Piston seals are designed to seal the pressurized hydraulic fluid against the atmosphere or between two pressurized spaces..

Features:

- Symmetrical, double acting piston seal, designed with interference of the o-ring on the ID and slight interference of the PTFE glide ring on the OD
- X-ring on the outside diameter ensures additional sealing especially at holding and positioning functions
- Good sealing function at medium separation
- Negligible tendency to “stick-slip” effect, good sliding properties
- Low break-away load after long standstills
- Excellent gap extrusion resistance

Application

- Reciprocating pistons in hydraulic cylinders, plungers
- Dynamic seals in hydraulic systems

Maximum operating conditions:

Correlated to profile and seal material types shown below:

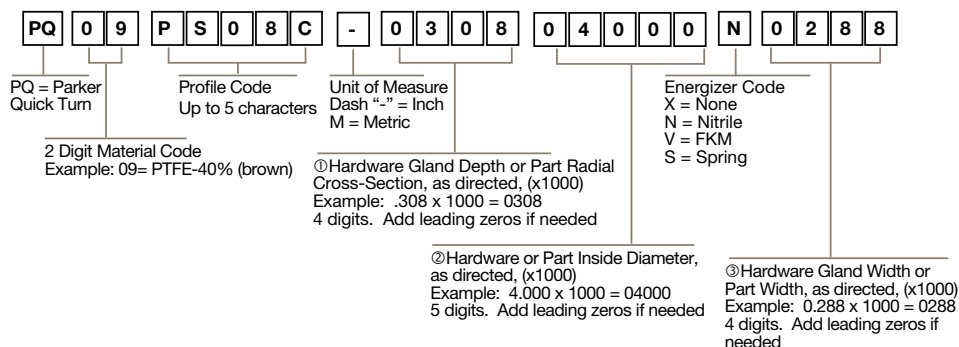
Material	Max Pressure (bar)	Max Surface Speed (m/sec)
PTFE/NBR	400	2

Similar in profile geometry to Parker CQ Profile.*

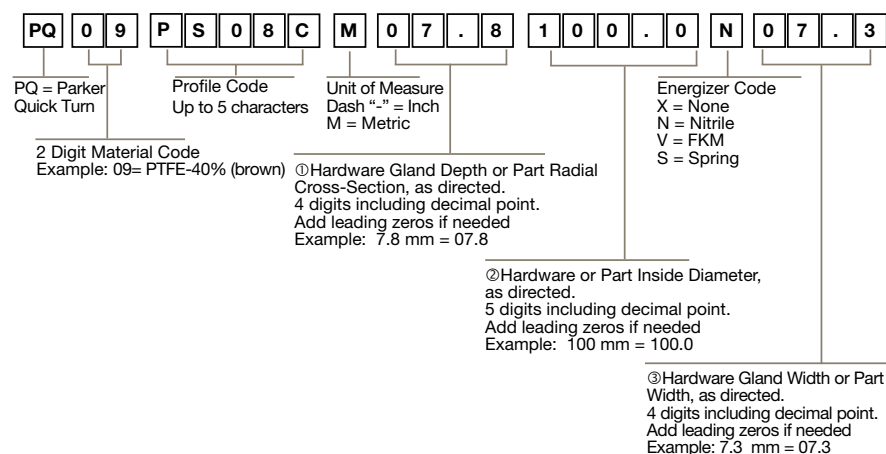
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



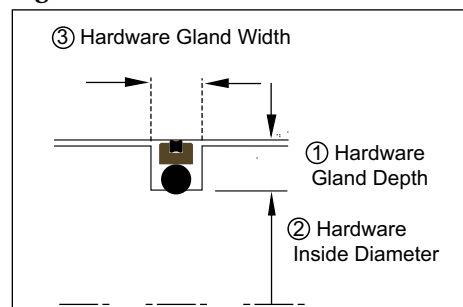
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



NOTE: All sales subject to Parker standard terms of sale (see www.parker.com/saleterms)

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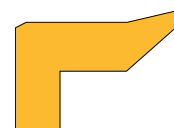


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Piston Seal PS16



Description

Function:

Piston seals are designed to seal the pressurized hydraulic fluid against the atmosphere or between two pressurized spaces..

Features:

- Asymmetrical, single acting piston seal
- Long sealing lip compensates for radial inaccuracy or eccentricity
- Useable for long stroke lengths
- Low break-away load after long standstills
- Seal design tends to “stick-slip” effect

Application

- Reciprocating pistons in hydraulic and pneumatic cylinders
- Replacement for seal designs (leather seals etc.) used in old cylinders

Maximum operating conditions:

Correlated to profile and seal material types shown below:

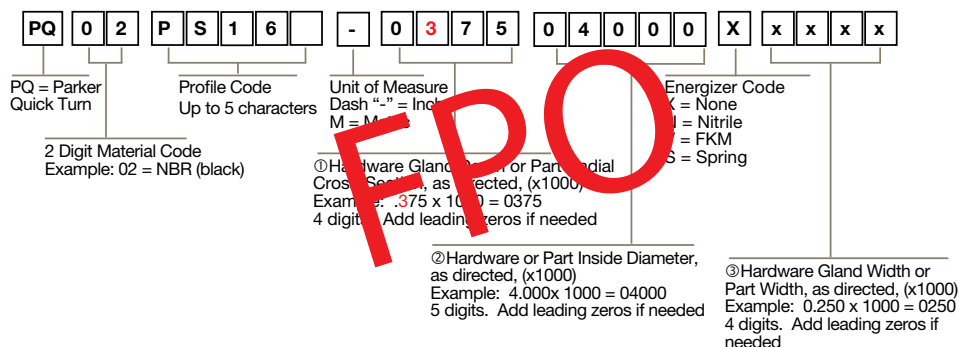
Material	Max Pressure (bar)	Max Surface Speed (m/sec)
NBR	160	0.5

Similar in profile geometry to Parker piston cups.*

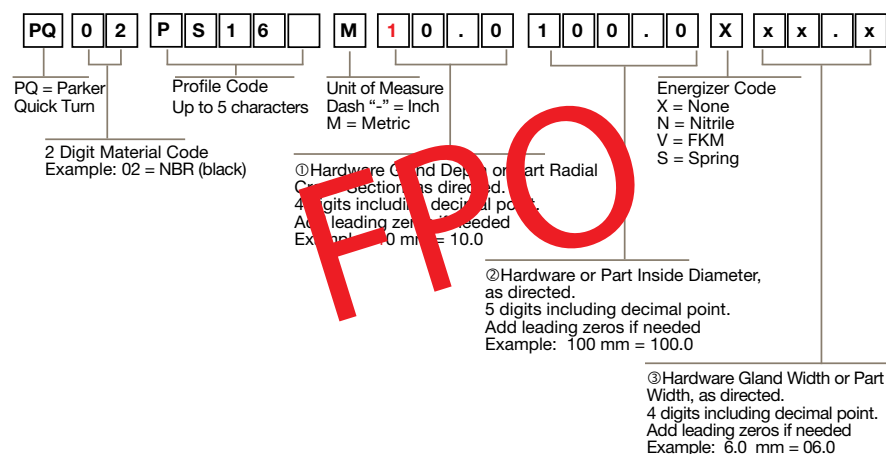
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



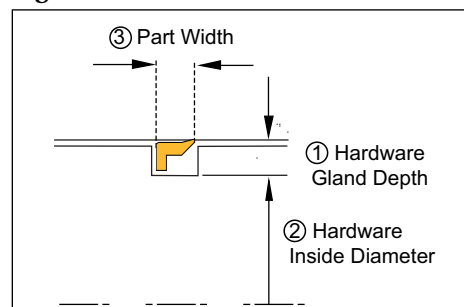
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



NOTE: All sales subject to Parker standard terms of sale (see www.parker.com/saleterms)

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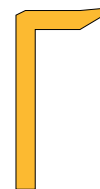


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Piston Seal PS16A



Description

Function:

Piston seals are designed to seal the pressurized hydraulic fluid against the atmosphere or between two pressurized spaces..

Features:

- Asymmetrical, single acting piston seal
- Long sealing lip compensates for radial inaccuracy or eccentricity
- Useable for long stroke lengths
- Low break-away load after long standstills
- Seal design tends to “stick-slip” effect

Application

- Reciprocating pistons in hydraulic and pneumatic cylinders
- Replacement for seal designs (leather seals etc.) used in old cylinders

Maximum operating conditions:

Correlated to profile and seal material types shown below:

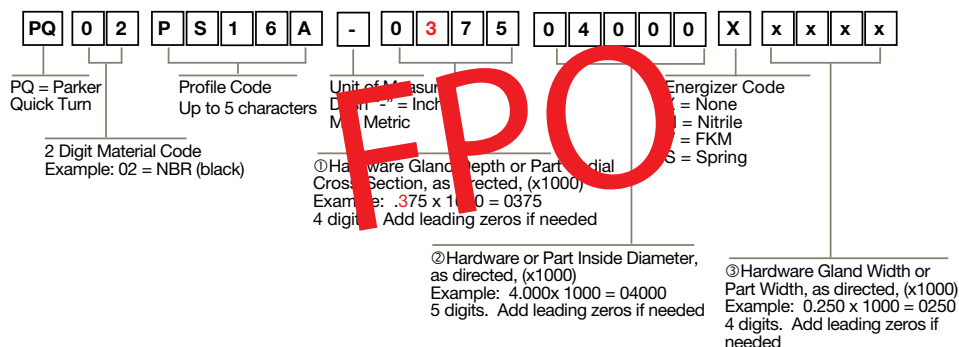
Material	Max Pressure (bar)	Max Surface Speed (m/sec)
NBR	160	0.5

Similar in profile geometry to Parker piston cups.*

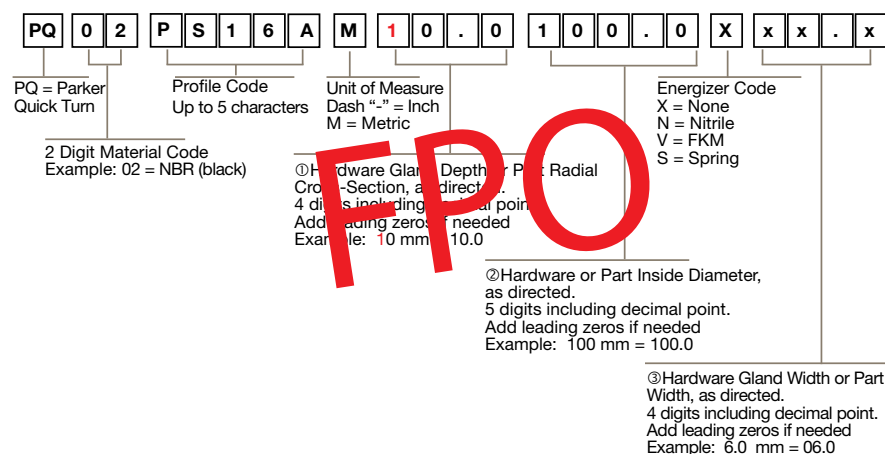
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



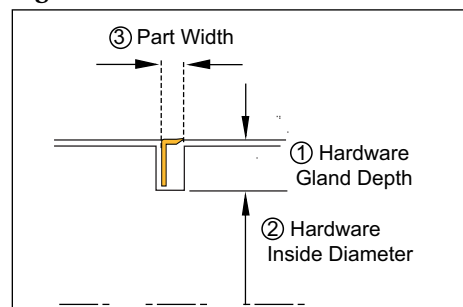
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



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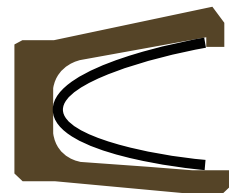


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Piston Seal PS19



Description

Function:

Piston seals are designed to seal the pressurized hydraulic fluid against the atmosphere or between two pressurized spaces.

Features:

- Asymmetrical, single acting piston seal, designed with no interference on the static sealing diameter
- Preload effected through V-spring
- Dynamic sealing lip shorter than static lip to avoid drag pressure
- Excellent static and dynamic sealing performance
- Useable for short and long stroke lengths
- Low friction in dry running or poor lubrication conditions
- Negligible tendency to “stick-slip” effect, small break away loads

Application

- Reciprocating and swivelling pistons in hydraulic cylinders, plungers
- Chemical and pharmaceutical industry, aggressive fluids and high temp

Maximum operating conditions:

Correlated to profile and seal material types shown below:

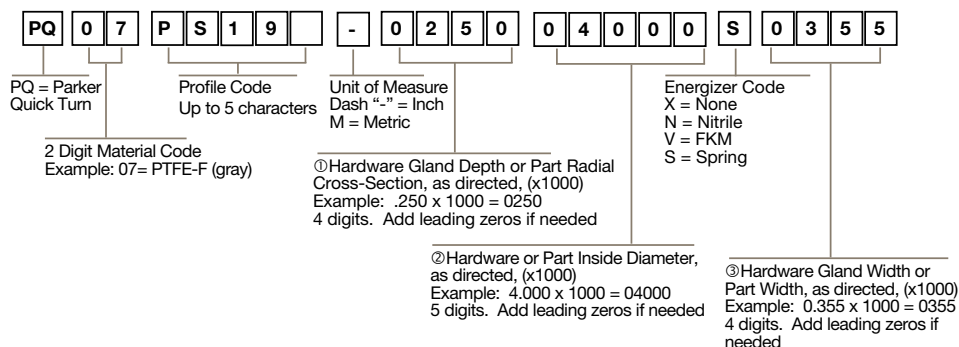
Material	Max Pressure (bar)	Max Surface Speed (m/sec)
PTFE-Virgin /V spring	200	15
PTFE-filled /V SPRING	400	15

Similar in profile geometry to Parker FPS-V FlexiSeal™ Profile.*

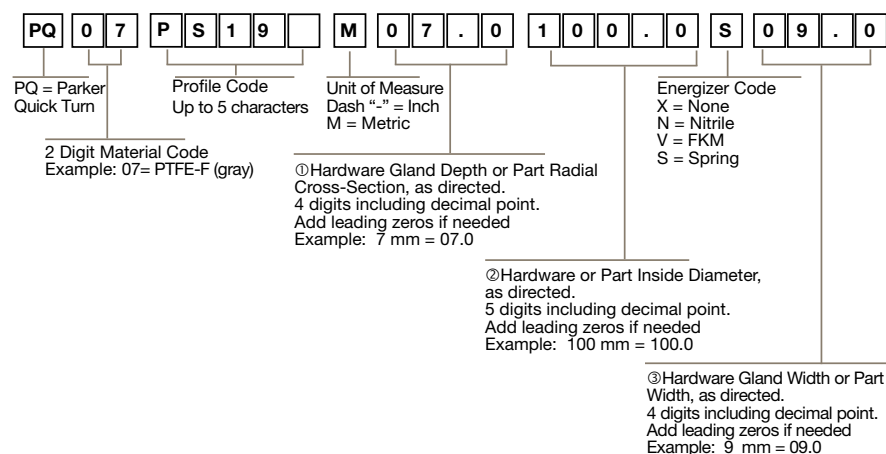
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



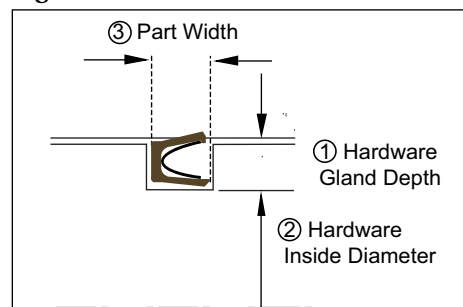
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



NOTE: All sales subject to Parker standard terms of sale (see www.parker.com/saleterms)

Parker EPS Division
www.parker.com/eps/quickturn



QuickTurn Machined Seals

Parker EPS Division

Profile Description

Piston Seal PS20



Description

Function:

Piston seals are designed to seal the pressurized hydraulic fluid against the atmosphere or between two pressurized spaces..

Features:

- Asymmetrical, double acting compact piston seal, designed with interference on the ID which provides a good static fit in the groove
- Excellent static and dynamic sealing performance
- Excellent performance in low pressure conditions
- Negligible tendency to “stick-slip” effect
- High break-away load after long standstills
- Activated back-up rings reduce gap extrusion and prevent twisting of the seal in the groove

Application

- Reciprocating pistons in hydraulic cylinders, plungers
- Static and dynamic seals in hydraulic systems, replacement for o-rings (no twisting or pumping)

Maximum operating conditions:

Correlated to profile and seal material types shown below:

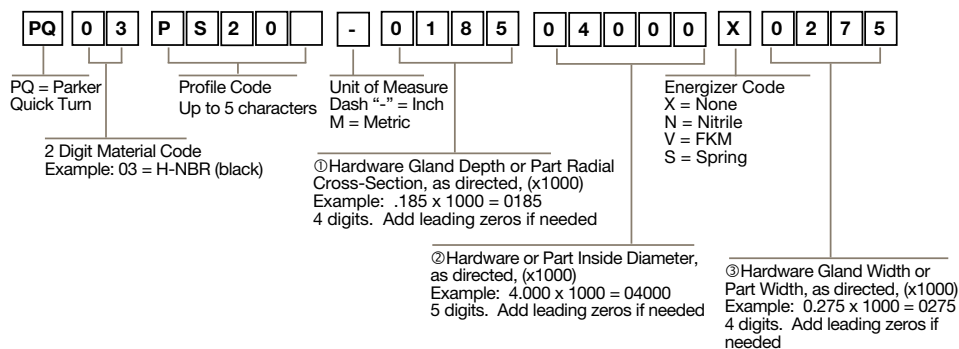
Material	Max Pressure (bar)	Max Surface Speed (m/sec)
NBR/POM	700	0.5

Similar in profile geometry to Parker TP Profile.*

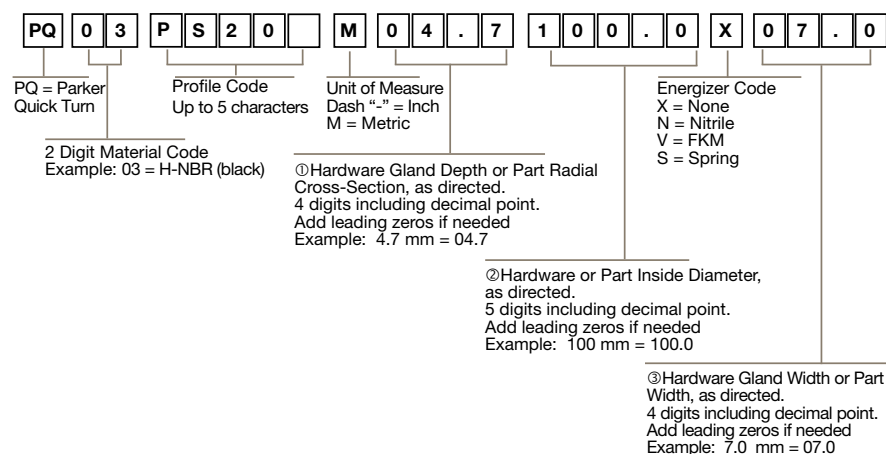
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



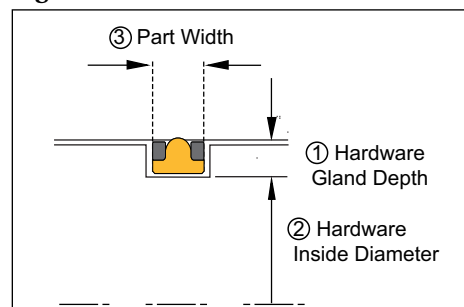
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



NOTE: All sales subject to Parker standard terms of sale (see www.parker.com/saleterms)

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EPS-5252-PS20

10/2017

TMR/POD

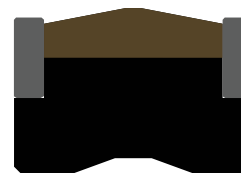


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Piston Seal P51



Description

Function:

Compact piston seal set, designed to seal the hydraulic fluid between two pressurized spaces, preventing the flow of the fluid to the other side and transforming the pressure force into the movement.

Features:

- Double acting piston seal, designed with interference on the ID which provides a good static fit in the groove
- Consisting of one gliding, energizing and two back-up elements
- Useable for short and long stroke lengths
- Good static and dynamic sealing performance
- High frictional force
- No drag pressure build-up

Application

- Reciprocating pistons in hydraulic cylinders
- Universal piston seal for double-acting cylinders

Maximum operating conditions:

Correlated to profile and seal material types shown below:

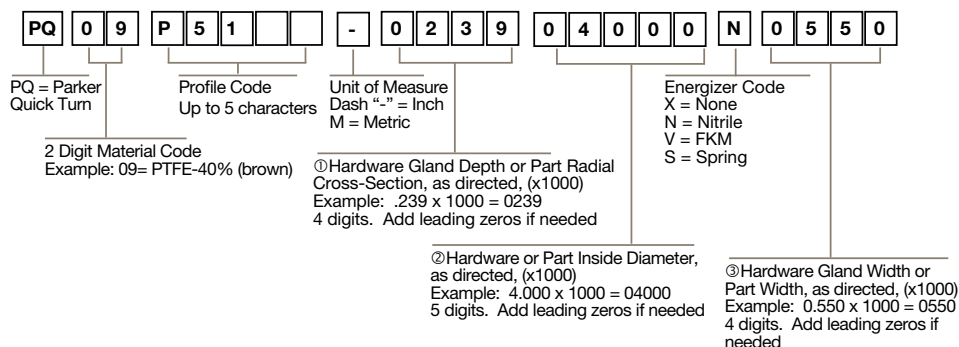
Material	Max Pressure (bar)	Max Surface Speed (m/sec)
PU/NBR/POM	400 DYN. 1500 STAT.	0.5 0.2

Similar in profile geometry to Parker CT Profile.*

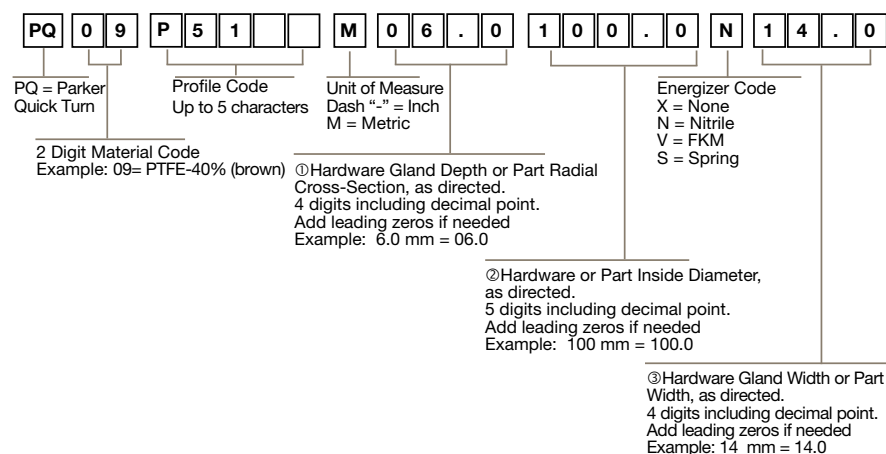
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



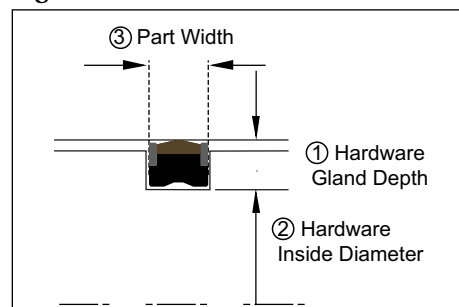
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



NOTE: All sales subject to Parker standard terms of sale (see www.parker.com/saleterms)

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EPS-5252-P51

10/2017

TMR/POD

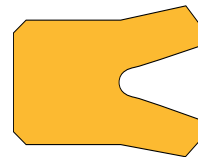


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Symmetrical Seal PRS06



Description

Function:

Symmetrical piston/rod seals are designed to seal the pressurized hydraulic fluid against the atmosphere or between two pressurized spaces.

Features:

- Symmetrical, single acting piston/rod seal, no interference on the ID or OD
- Excellent static and dynamic sealing performance
- Excellent performance in low pressure conditions
- Useable for long stroke lengths
- Negligible tendency to “stick-slip” effect above a speed of 0.15 m/s

Application

- Reciprocating pistons/rods in hydraulic cylinders, plungers etc.
- Universal piston/rod seal for small extrusion gaps and minor work loads

Maximum operating conditions:

Correlated to profile and seal material types shown below:

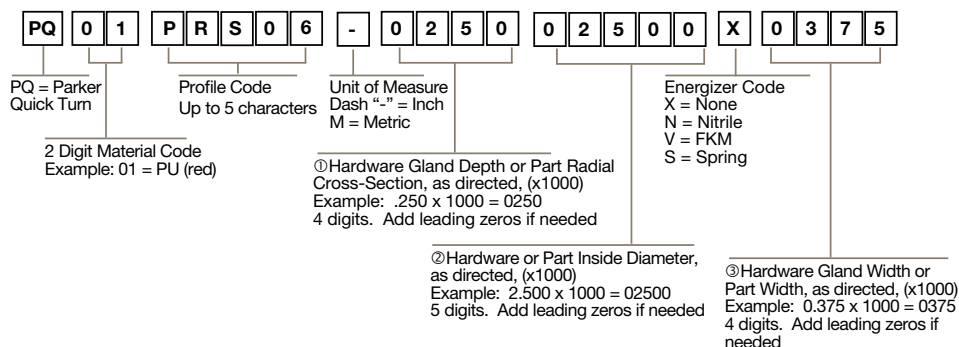
Material	Max Pressure (bar)	Max Surface Speed (m/sec)
PU	400	0.5
NBR	160	0.5

Similar in profile geometry to Parker US Profile.*

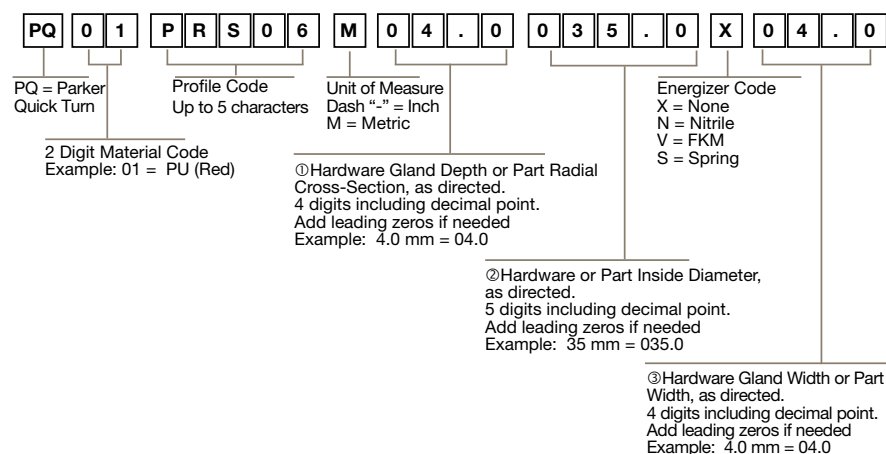
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



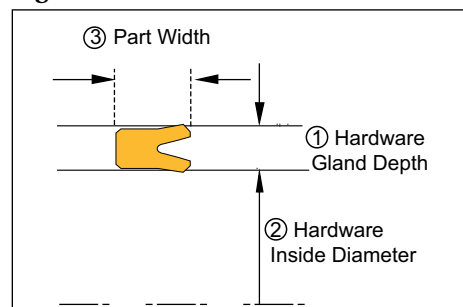
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



NOTE: All sales subject to Parker standard terms of sale (see www.parker.com/saleterms)

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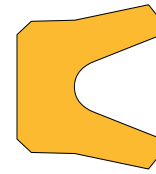


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Symmetrical Seal PRS06A



Description

Function:

Symmetrical piston/rod seals are designed to seal the pressurized hydraulic fluid against the atmosphere or between two pressurized spaces.

Features:

- Symmetrical, single acting piston/rod seal, no interference on the ID or OD
- Wider groove and softer lips compared to PRS06
- Excellent static and dynamic sealing performance
- Excellent performance in low pressure conditions
- Useable for long stroke lengths
- Negligible tendency to "stick-slip" effect above a speed of 0.15 m/s

Application

- Reciprocating pistons/rods in hydraulic cylinders, plungers etc. where low friction is required
- Universal piston/rod seal for small extrusion gaps and minor work loads

Maximum operating conditions:

Correlated to profile and seal material types shown below:

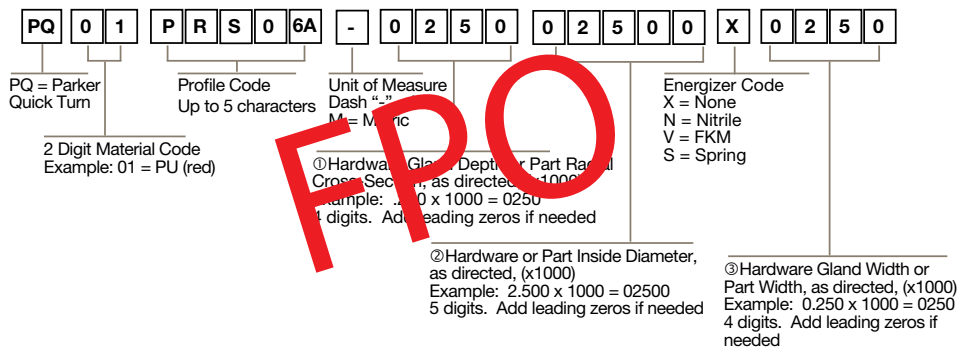
Material	Max Pressure (bar)	Max Surface Speed (m/sec)
PU	160	0.5
NBR	160	0.5

Similar in profile geometry to Parker 8400 Profile.*

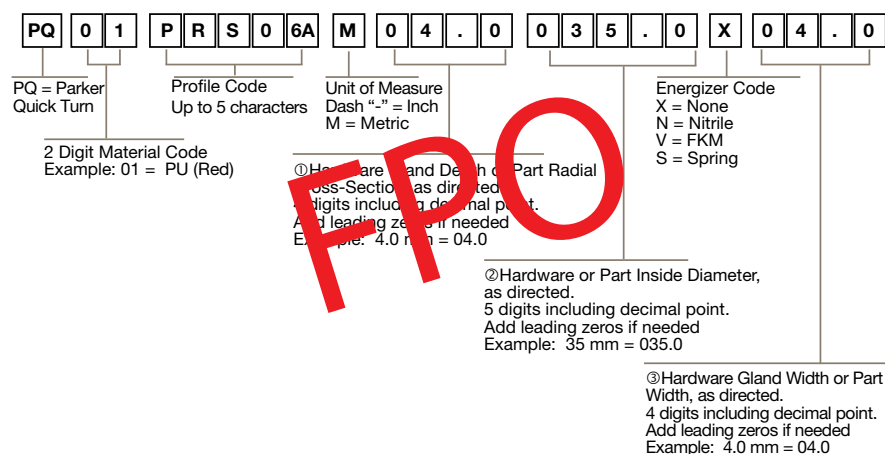
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



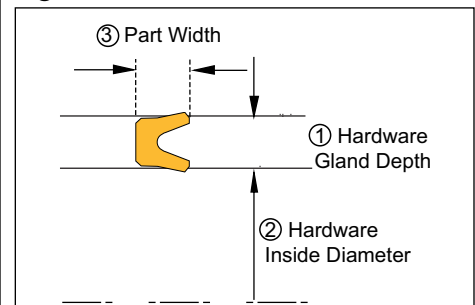
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



NOTE: All sales subject to Parker standard terms of sale (see www.parker.com/saleterms)

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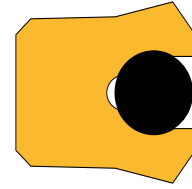


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Symmetrical Seal PRS07



Description

Function:

Symmetrical piston/rod seals are designed to seal the pressurized hydraulic fluid against the atmosphere or between two pressurized spaces.

Features:

- Symmetrical, single acting piston/rod seal, no interference on the ID or OD
- Increased preload due to an additional o-ring
- Excellent static and dynamic sealing performance
- Excellent performance in low pressure conditions
- Useable for short pulsating strokes
- No reverse leakage when changing direction
- Recommended for positioning or holding under pressure

Application

- Reciprocating pistons/rods in hydraulic cylinders, plungers etc.
- Switching or clamping functions
- Replacement for rubber fabric seals

Maximum operating conditions:

Correlated to profile and seal material types shown below:

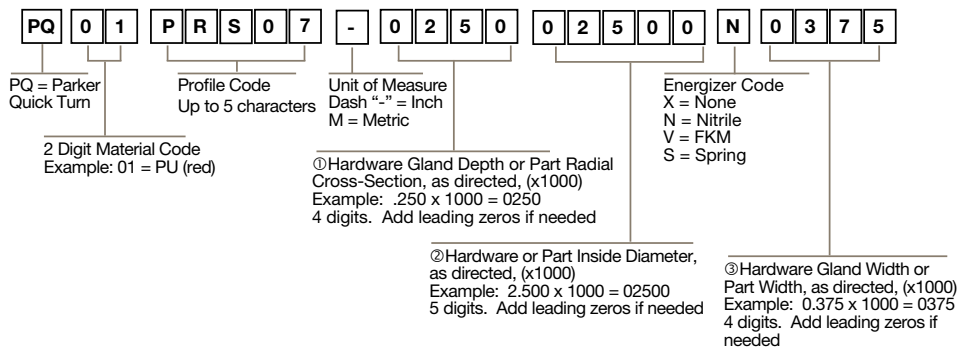
Material	Max Pressure (bar)	Max Surface Speed (m/sec)
PU/NBR	400	0.5
NBR/NBR	160	0.5

Similar in profile geometry to Parker BA Profile.*

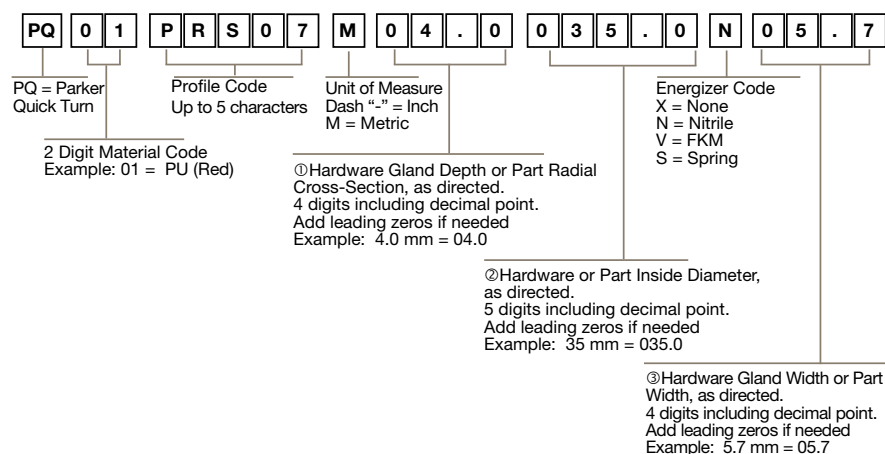
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



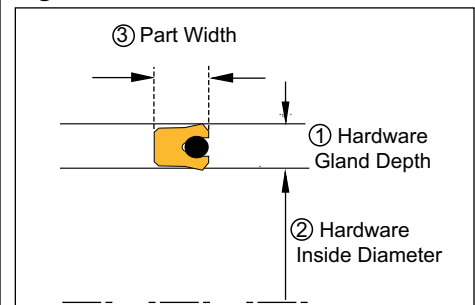
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



NOTE: All sales subject to Parker standard terms of sale (see www.parker.com/saleterms)

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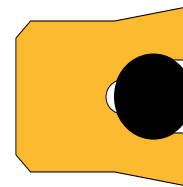


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Symmetrical Seal PRS18



Description

Function:

Symmetrical piston/rod seals are designed to seal the pressurized hydraulic fluid against the atmosphere or between two pressurized spaces.

Features:

- Symmetrical, single acting piston/rod seal, no interference on the ID or OD
- Increased preload due to an additional o-ring
- Sharp lips for use in high viscosity media
- Excellent static and dynamic sealing performance
- Good performance in all pressure ranges
- Used for short pulsating strokes
- No reverse leakage when changing direction
- Recommended for positioning or holding under pressure

Application

- Reciprocating pistons/rods in hydraulic cylinders, plungers etc.
- Switching or clamping functions
- Replacement for rubber fabric seals

Maximum operating conditions:

Correlated to profile and seal material types shown below:

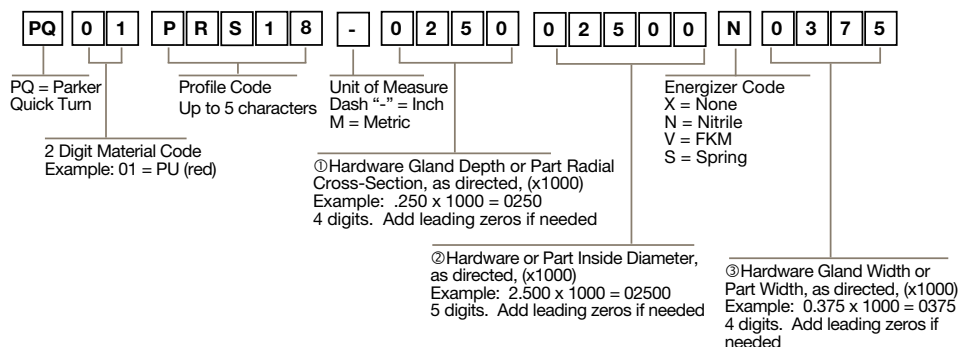
Material	Max Pressure (bar)	Max Surface Speed (m/sec)
PU/NBR	400	0.5
NBR/NBR	160	0.5

Similar in profile geometry to Parker SA Profile.*

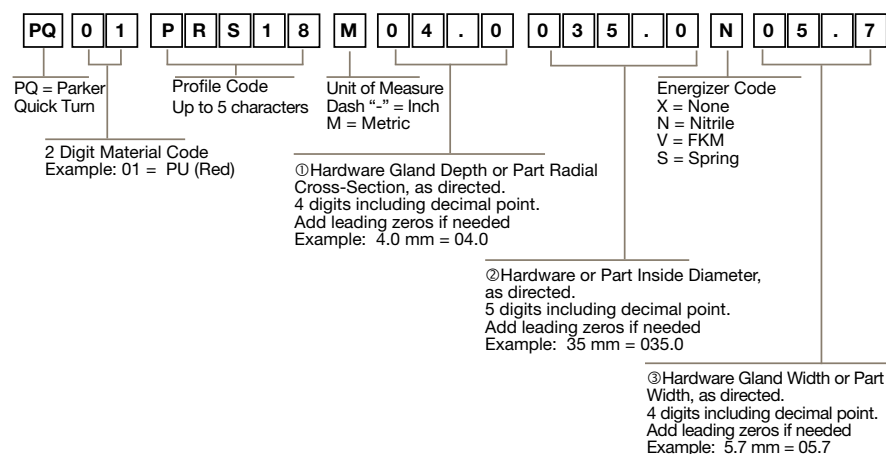
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



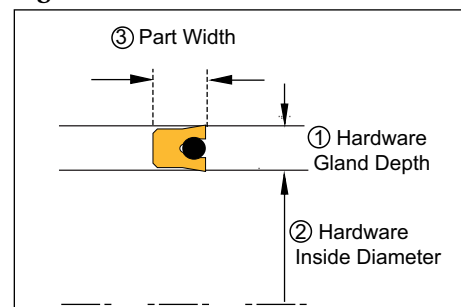
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



NOTE: All sales subject to Parker standard terms of sale (see www.parker.com/saleterms)

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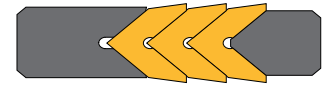


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Symmetrical Seal PRS10-12



Description

Function:

Symmetrical piston/rod seals are designed to seal the pressurized hydraulic fluid against the atmosphere or between two pressurized spaces.

Maximum operating conditions:

Correlated to profile and seal material types shown below:

Features:

- Symmetrical, single acting piston/rod seal, combined with pressure ring and support ring
- By adjusting the number of (vee-ring) packings, friction and leakage characteristics can be influenced
- Excellent static and dynamic sealing performance
- Excellent performance in high pressure conditions
- Useable for short and long stroke lengths
- High wear resistance

Material	Max Pressure (bar)	Max Surface Speed (m/sec)
PU/POM	500	0.5
NBR/POM	250	0.5

Application

- Reciprocating pistons/rods in hydraulic cylinders, plungers etc.
- Used in heavy duty applications (presses) with return stroke by equipment weight

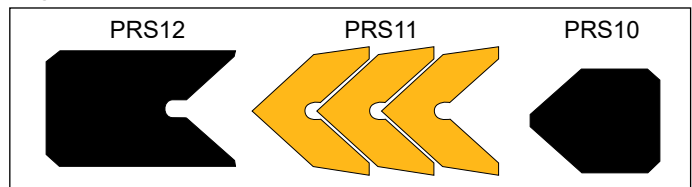
Part Numbering

PRS10-12 Profile is an assembly of three components:

- PRS10: Header ring
- PRS11: Vee rings (packings)
- PRS12: Female adapters (support ring)

Configure part numbers for each component. Details on configuring part numbers for each component are displayed on the following page.

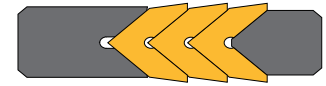
Fig 1.



Your order will consist of component part numbers and respective quantities for each component. For example, in the arrangement shown in Fig. 1 above, you would order:

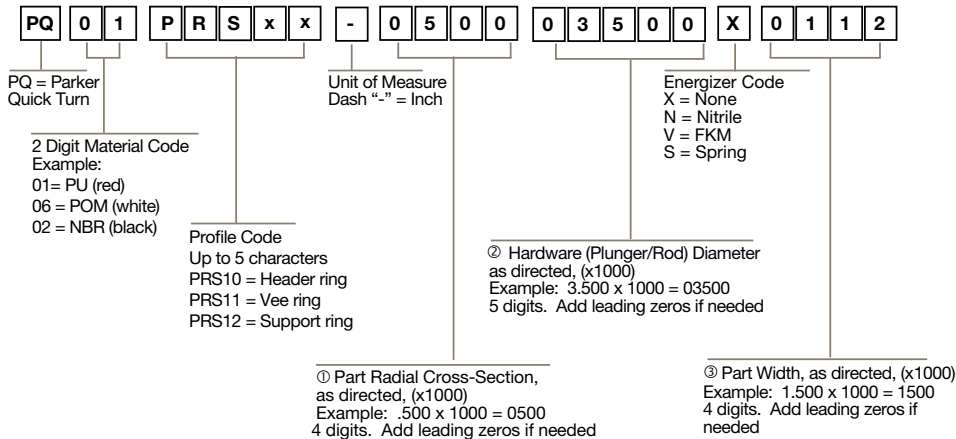
- one each: PRS10: Header ring
- three each: PRS11: Vee rings (packings)
- one each: PRS12: Female adapters (support ring)

Continued on next page.

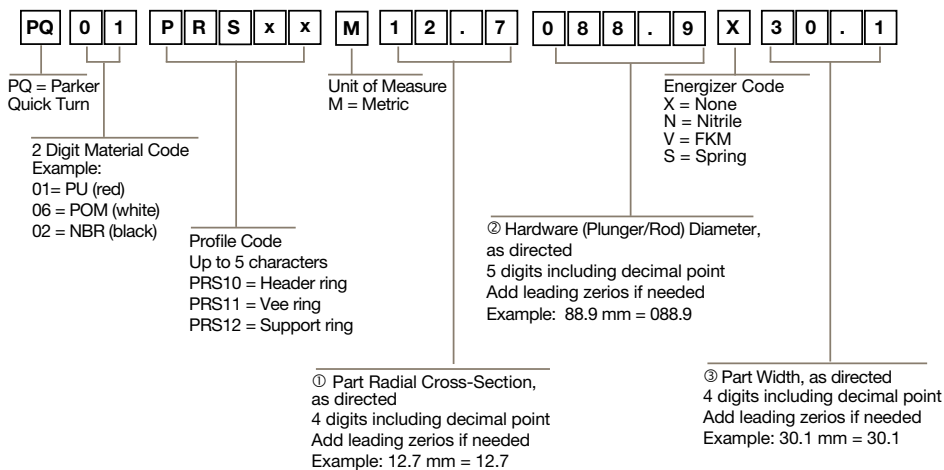


Part Numbering (cont'd)

Part Number Nomenclature – Inch



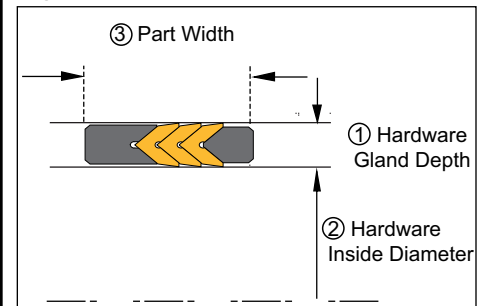
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 2)

Fig 2.



NOTE: All sales subject to Parker standard terms of sale (see www.parker.com/saleterms)

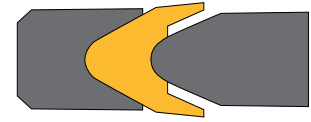


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Symmetrical Seal PRS13-15



Description

Function:

Symmetrical piston/rod seals are designed to seal the pressurized hydraulic fluid against the atmosphere or between two pressurized spaces.

Features:

- Symmetrical, single acting piston/rod seal, combined with pressure ring (header ring) and support ring (female adapter)
- By adjusting the number of packings (vee rings), friction and leakage characteristics can be influenced
- Excellent static and dynamic sealing performance
- Excellent performance in high pressure conditions
- Useable for short and long stroke lengths
- Reduced friction compared to PRS10-12 profile especially in the high pressure range

Application

- Reciprocating pistons/rods in hydraulic cylinders, plungers and water hydraulics
- Used in heavy duty applications (presses) with return stroke by equipment weight

Maximum operating conditions:

Correlated to profile and seal material types shown below:

Material	Max Pressure (bar)	Max Surface Speed (m/sec)
PU/POM	500	0.5
NBR/POM	250	0.5

Part Numbering

PRS13-15 Profile is an assembly of three components:

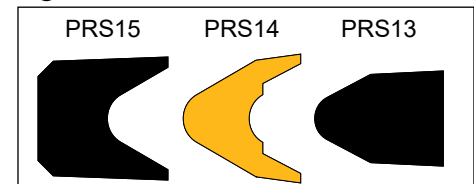
- PRS13: Header ring (pressure ring)
- PRS14: Vee rings (packings)
- PRS15: Female adapter (support ring)

Configure part numbers for each component. Details on configuring part numbers for each component are displayed on the following page.

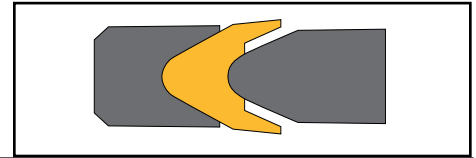
Your order will consist of component part numbers and respective quantities for each component. For example, in the arrangement shown in Fig. 1 above, you would order:

- one each: PRS13: Header ring (pressure ring)
- one each: PRS14: Vee rings (packings)
- one each: PRS15: Female adapter (support ring)

Fig 1.

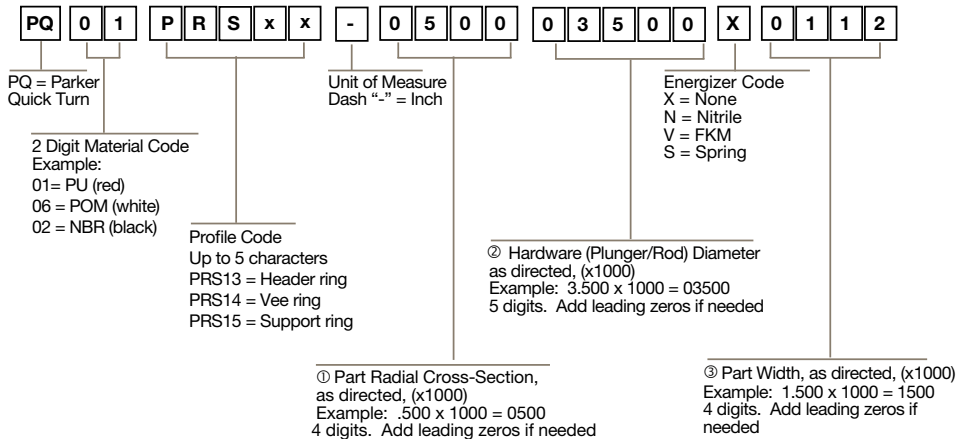


Continued on next page.

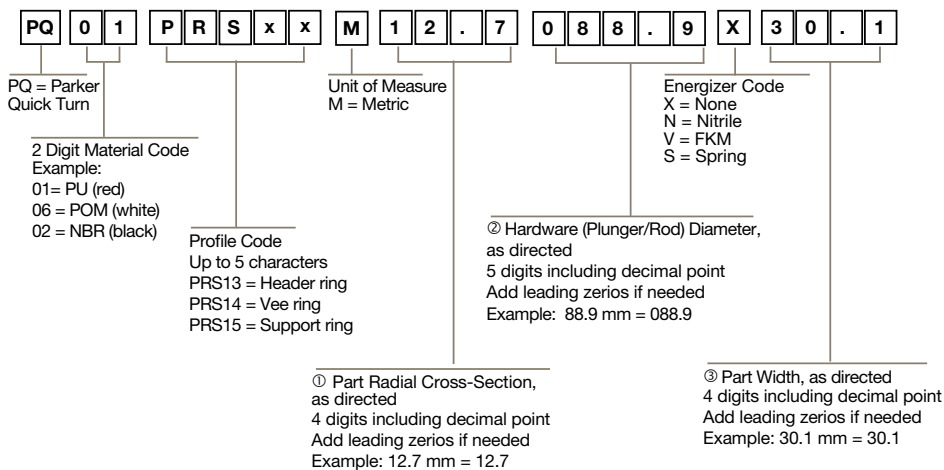


Part Numbering (cont'd)

Part Number Nomenclature – Inch



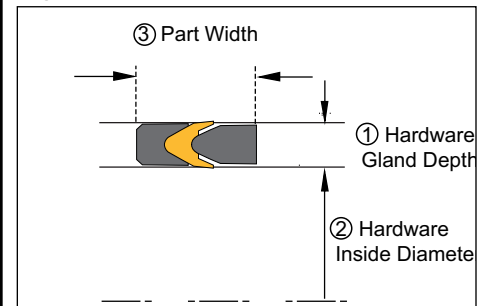
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 2)

Fig 2.



NOTE: All sales subject to Parker standard terms of sale (see www.parker.com/saleterms)

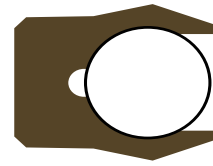


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Symmetrical Seal PRS19B



Description

Function:

Symmetrical piston/rod seals are designed to seal the pressurized hydraulic fluid against the atmosphere or between two pressurized spaces.

Features:

- Symmetrical, single acting piston/rod seal, no interference on the ID or OD
- Preload effected through round helical coil spring which ensures high pressure on the sealing edges
- Excellent static and dynamic sealing performance
- Excellent sealing performance in low and high pressure ranges
- Useable for short and long stroke lengths
- Low friction in dry running or poor lubrication conditions
- Also used for gas applications
- Negligible tendency to "stick-slip" effect, small break away loads

Application

- Reciprocating and swivelling pistons in hydraulic cylinders, plungers
- Chemical and pharmaceutical industry, aggressive fluids and high temp
- Max. pressure 160 bar, max. speed 5 m/s linear; 0.1 m/s rotating

Maximum operating conditions:

Correlated to profile and seal material types shown below:

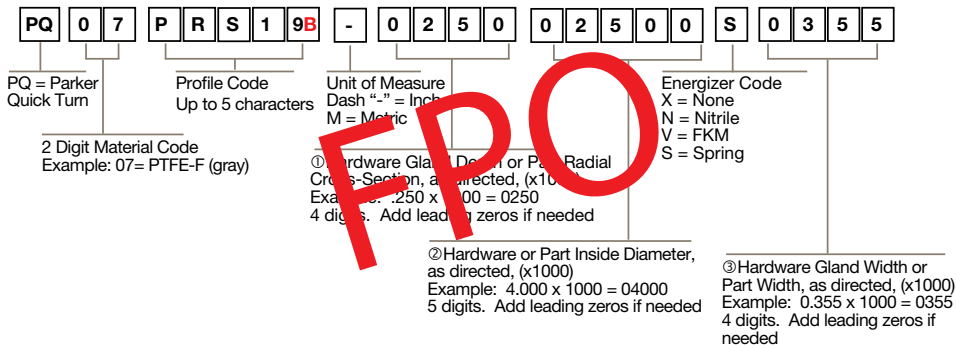
Material	Max Pressure (bar)	Max Surface Speed (m/sec)
PTFE-virgin/ Helical coil spring	200	5
PTFE-filled/ Helical coil spring	400	5

Similar in profile geometry to Parker FBN-C FlexiSeal™ Profile.*

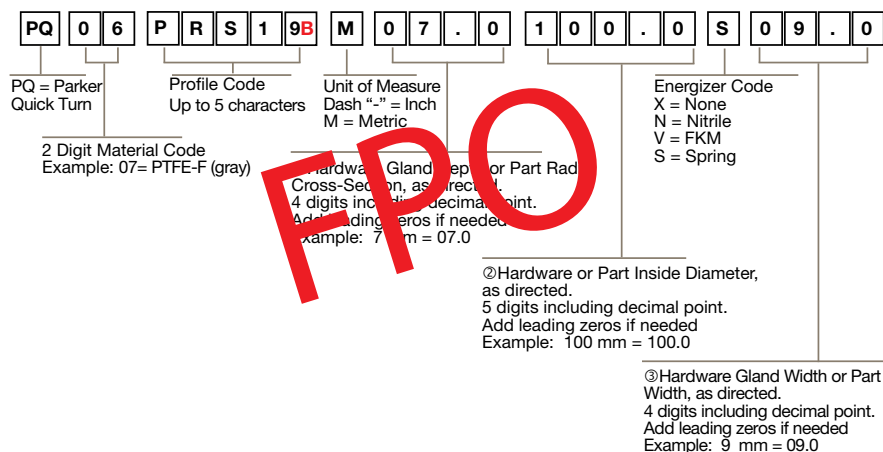
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



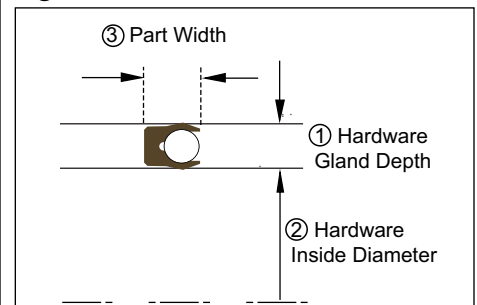
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



NOTE: All sales subject to Parker standard terms of sale (see www.parker.com/saleterms)

Parker EPS Division
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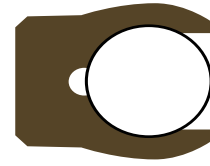


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Symmetrical Seal PRS19C



Description

Function:

Symmetrical piston/rod seals are designed to seal the pressurized hydraulic fluid against the atmosphere or between two pressurized spaces.

Features:

- Symmetrical, single acting piston/rod seal, no interference on the ID or OD
- Preload effected through round helical coil spring which ensures high pressure on the rounded lips
- Excellent static and dynamic sealing performance
- Excellent sealing performance in low and high pressure ranges
- Useable for short and long stroke lengths
- Low friction in dry running or poor lubrication conditions
- Also used for gas applications
- Negligible tendency to "stick-slip" effect, small break away loads

Application

- Reciprocating and swivelling pistons in hydraulic cylinders, plungers
- Chemical and pharmaceutical industry, aggressive fluids and high temp
- Max. pressure 160 bar, max. speed 5 m/s linear; 0.1 m/s rotating

Maximum operating conditions:

Correlated to profile and seal material types shown below:

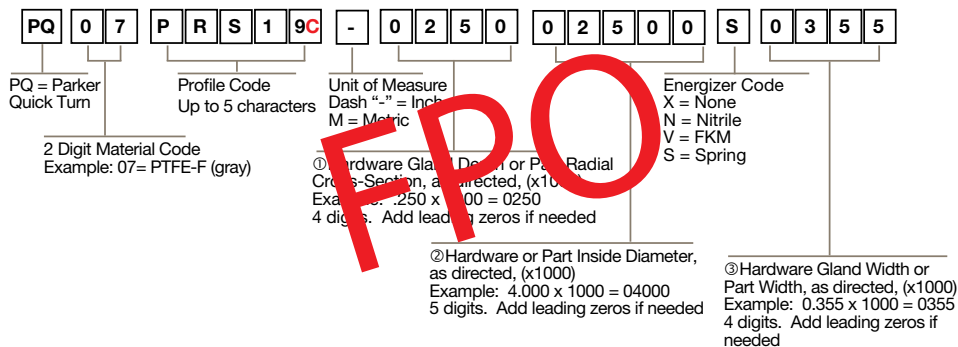
Material	Max Pressure (bar)	Max Surface Speed (m/sec)
PTFE-virgin/ Helical coil spring	200	5
PTFE-filled/ Helical coil spring	400	5

Similar in profile geometry to Parker FB series FlexiSeal™ Profile.*

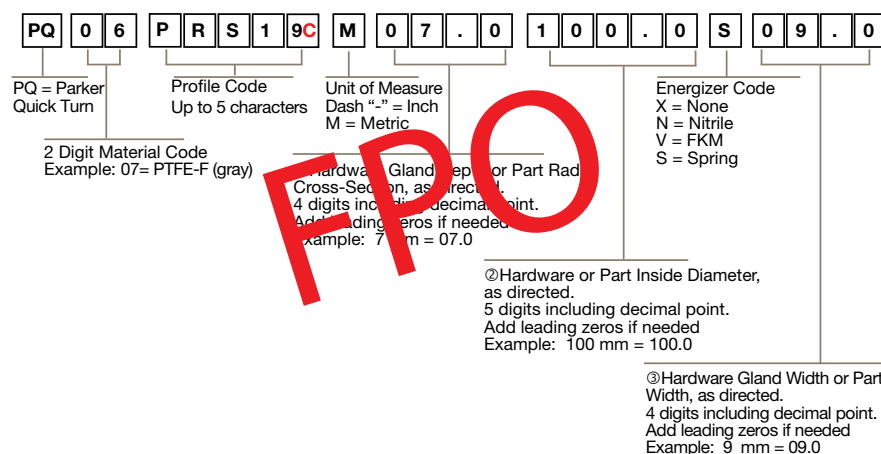
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



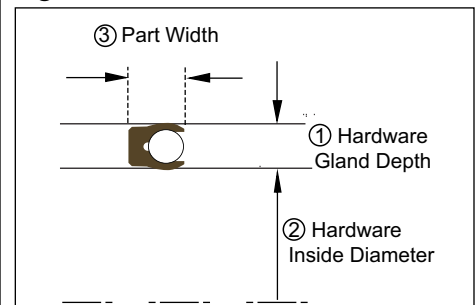
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



NOTE: All sales subject to Parker standard terms of sale (see www.parker.com/saleterms)

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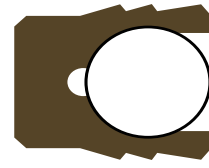


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Symmetrical Seal PRS19D



Description

Function:

Symmetrical piston/rod seals are designed to seal the pressurized hydraulic fluid against the atmosphere or between two pressurized spaces.

Features:

- Symmetrical, single acting piston/rod seal, no interference on the ID or OD
- Preload effected through round Helicoil-spring which ensures high pressure on the sealing edges
- Excellent static and dynamic sealing performance
- Excellent sealing performance in low and high pressure ranges
- Useable for short and long stroke lengths
- Low friction in dry running or poor lubrication conditions
- Negligible tendency to "stick-slip" effect, small break away loads.

Application

- Reciprocating and swivelling pistons in hydraulic cylinders, plungers
- Chemical and pharmaceutical industry, aggressive fluids and high temp
- Max. pressure 200 bar, max. speed 1 m/s

Maximum operating conditions:

Correlated to profile and seal material types shown below:

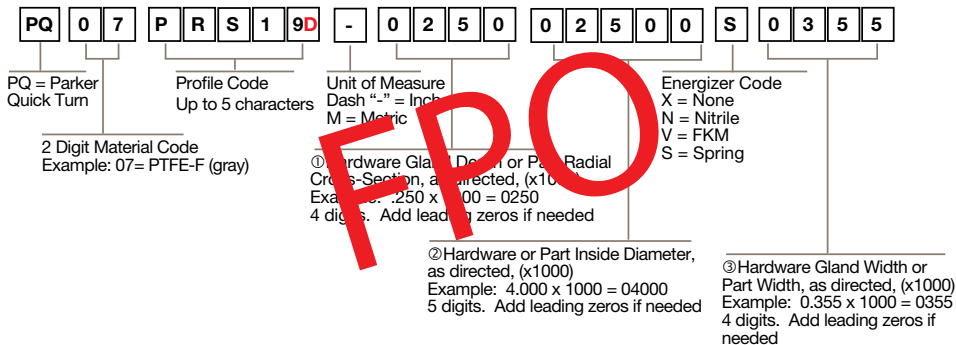
Material	Max Pressure (bar)	Max Surface Speed (m/sec)
PTFE-virgin/ Helical coil spring	200	1
PTFE-filled/ Helical coil spring	400	1

Similar in profile geometry to Parker FB series FlexiSeal™ Profile.*

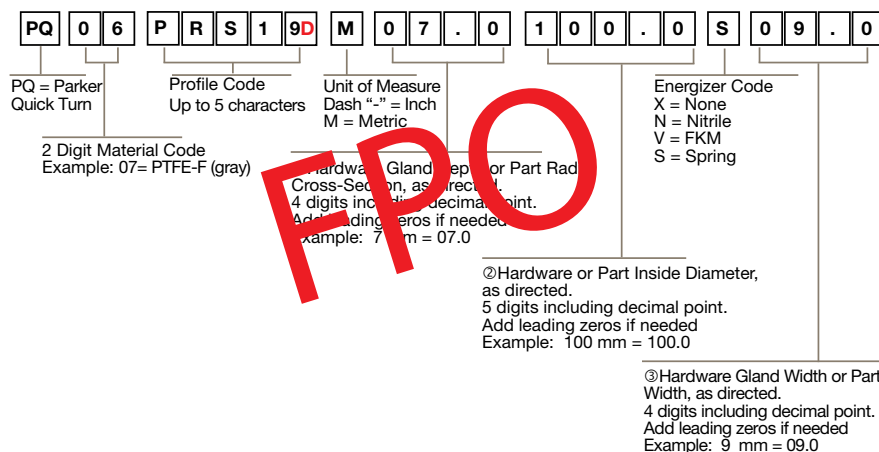
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



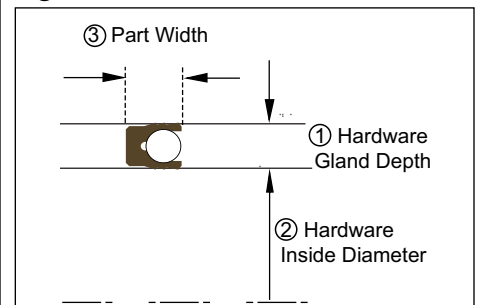
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



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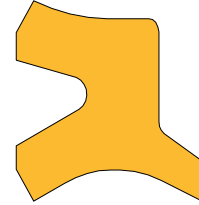


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Wiper PHAY



Description

Function:

Wipers are designed to keep dust, dirt, sand and others off the rod and the sealing and guiding elements, avoiding abrasive damage caused by external contamination.

Features:

- Heavy- to light-duty wiper
- Double-lips enable it to be used by itself in low pressure applications as both the rod seal and the wiper
- When used in high pressure applications with the proper Parker rod seal (PHBT, BT, BS, or B3), the PHAY profile complements the sealing system by providing an additional beveled sealing lip, yielding excellent film-breaking and the driest rod sealing available
- Resilon material provides long life, abrasion resistance, extrusion resistance, and low compression set

Application

- Reciprocation rods in hydraulic cylinders,

Maximum operating conditions:

Correlated to profile and seal material types shown below:

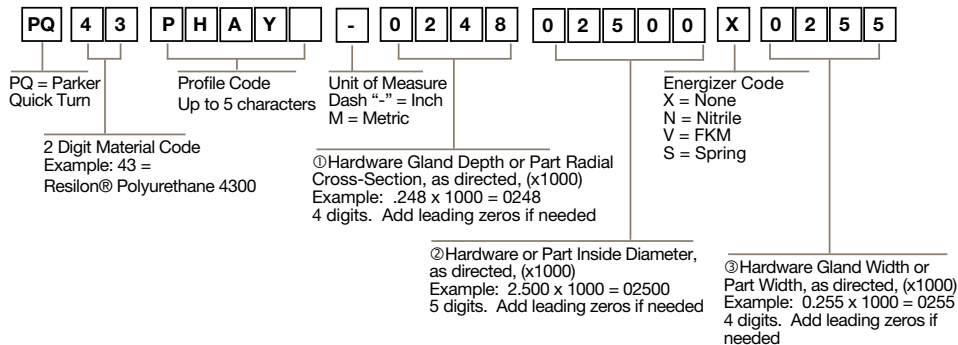
Material	Temp Range °C	Max Pressure (bar)*	Max Surface Speed (m/sec)
PU / (Resilon® 4300	-54 to 135	344	0.5
PU / Resilon® 4350	-54 to 149	344	0.5

*Max pressure without wear rings. If used with wear rings, see Table 2-4, Page 2-5 of Parker's Fluid Power Seal Design Guide, Catalog EPS 5370.

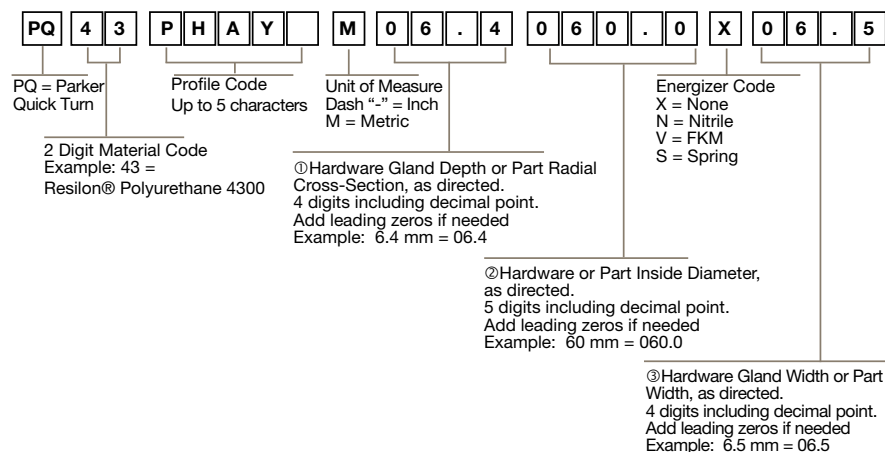
See additional description of AY Profile features in Parker's Fluid Power Seal Design Guide, Catalog EPS 5370.

Part Numbering

Part Number Nomenclature – Inch



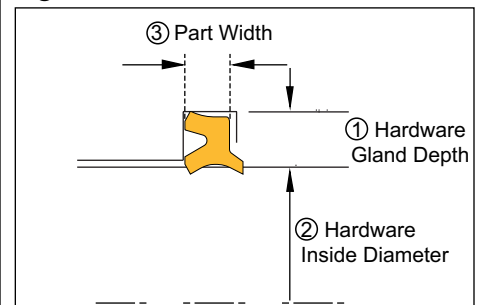
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



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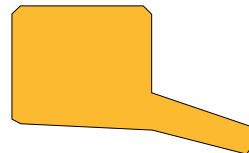


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Wiper WR02



Description

Function:

Wipers are designed to keep dust, dirt, sand and others off the rod and the sealing and guiding elements, avoiding abrasive damage caused by external contamination.

Features:

- The profile is designed with interference on the OD which provides a good static fit, preventing the entry of humidity and other contamination via the outside diameter
- The design of the wiper lip supports the recirculation of the remaining oil film into the cylinder, whilst the exclusion of contamination is guaranteed

Application

- Reciprocation rods in hydraulic cylinders, plungers..

Note: When the cylinder cannot be dismantled, the wiper can also be installed in cut version. In this case the diameter should be increased by 2-3%.

Maximum operating conditions:

Correlated to profile and seal material types shown below:

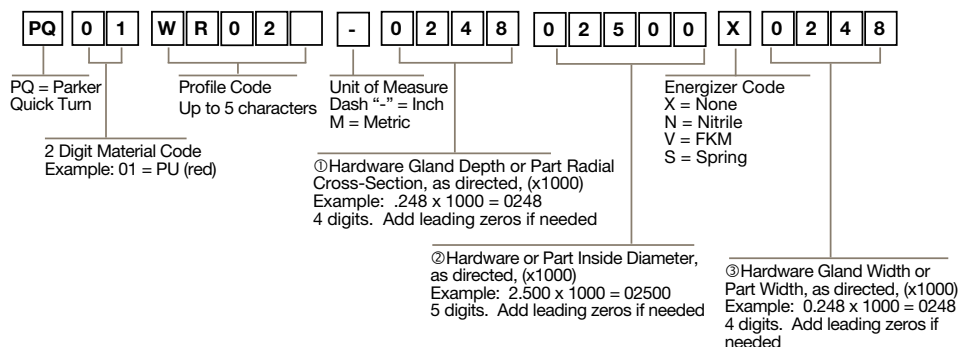
Material	Max Surface Speed (m/sec)
PU	4
NBR	4

Similar in profile geometry to Parker SHD Profile.*

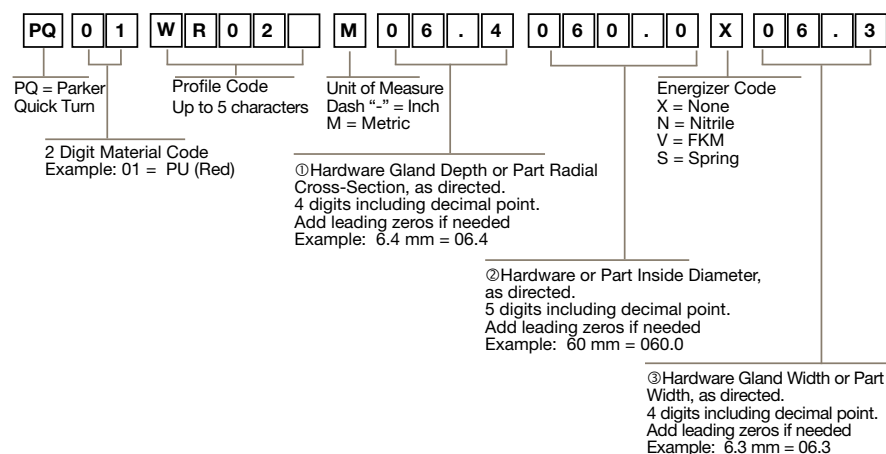
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



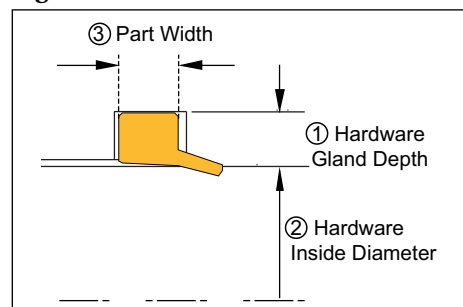
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



NOTE: All sales subject to Parker standard terms of sale (see www.parker.com/saleterms)

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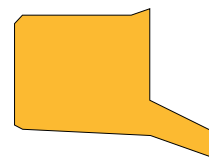


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Wiper WR02C



Description

Function:

Wipers are designed to keep dust, dirt, sand and others off the rod and the sealing and guiding elements, avoiding abrasive damage caused by external contamination.

Features:

- The profile is designed with interference on the OD which provides a good static fit, preventing the entry of humidity and other contamination via the outside diameter
- Sharp sealing lip for wiping in extreme conditions (mining industry, ice, etc.)
- Commonly made out of hard materials such as hard grade PU

Application

- Reciprocation rods in hydraulic cylinders, plungers.
- Extreme working conditions in mining industry or earth moving devices

Maximum operating conditions:

Correlated to profile and seal material types shown below:

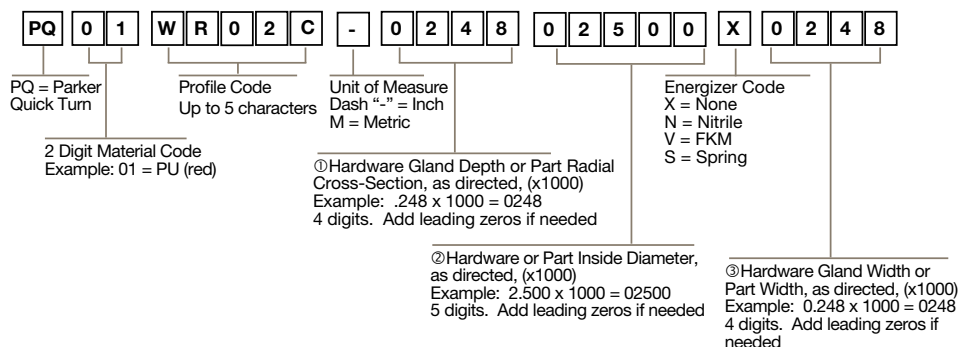
Material	Max Surface Speed (m/sec)
PU	4
NBR	4

Similar in profile geometry to Parker AK Profile.*

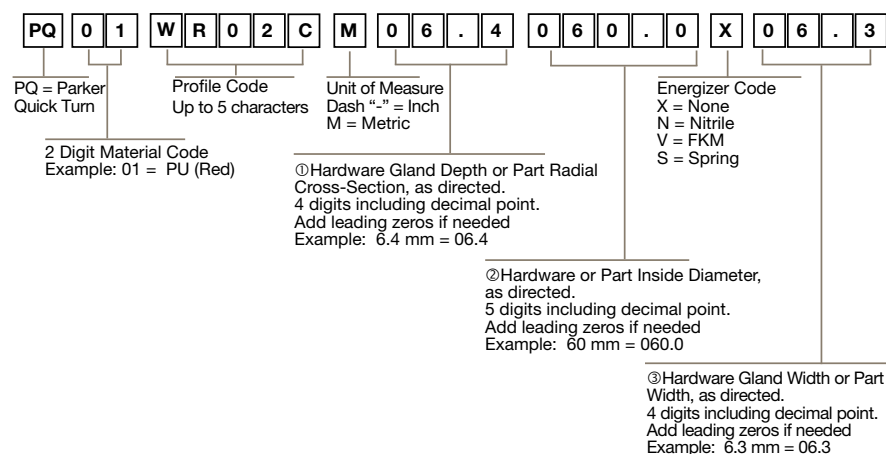
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



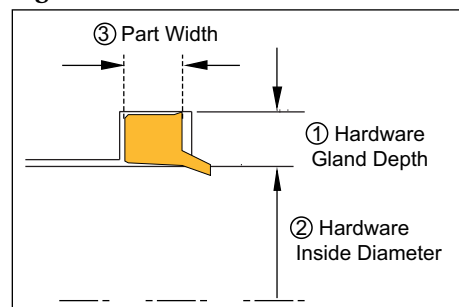
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



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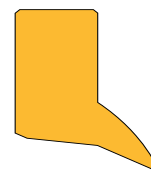


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Wiper WR02D



Description

Function:

Wipers are designed to keep dust, dirt, sand and others off the rod and the sealing and guiding elements, avoiding abrasive damage caused by external contamination.

Features:

- The profile is designed with interference on the OD which provides a good static fit, preventing the entry of humidity and other contamination via the outside diameter
- Sharp sealing edge for aggressive wiping
- The hump on the sealing lip enables better stability of the wiper
- The design of the wiper lip supports the recirculation of the remaining oil film into the cylinder, whilst the exclusion of contamination is guaranteed

Application

- Reciprocating rods in hydraulic cylinders, plungers.

Note: When the cylinder cannot be dismantled, the wiper can also be installed in cut version. In this case the diameter should be increased by 2-3%.

Maximum operating conditions:

Correlated to profile and seal material types shown below:

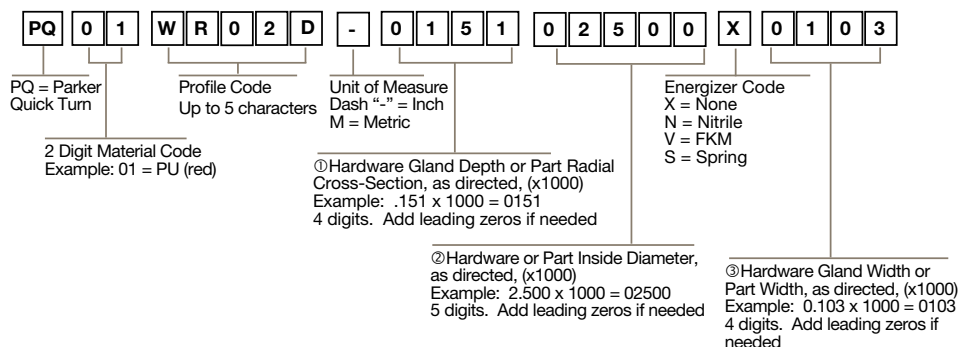
Material	Max Surface Speed (m/sec)
PU	4

Similar in profile geometry to Parker SH949 Profile.*

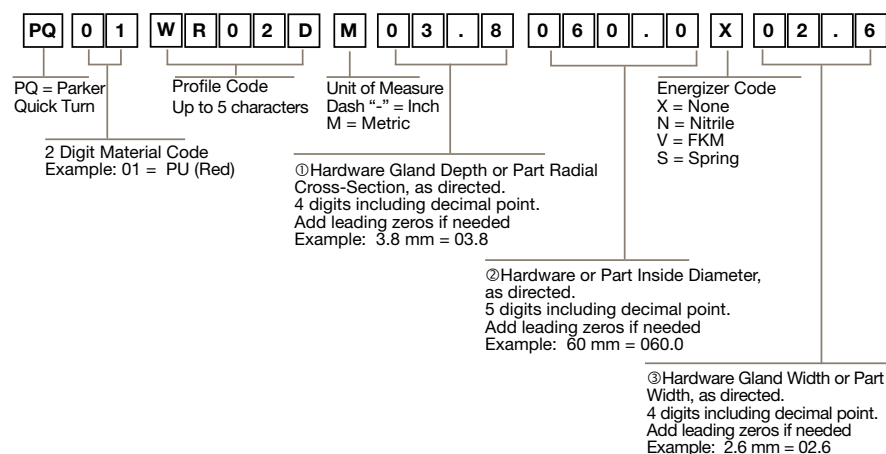
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



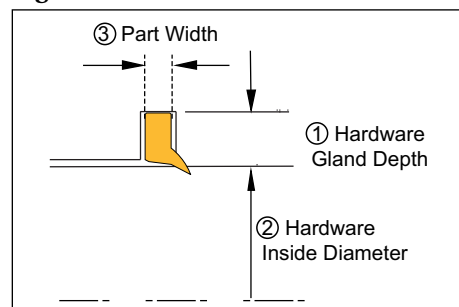
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



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Parker EPS Division
www.parker.com/eps/quickturn

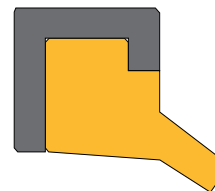


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Wiper WR03



Description

Function:

Wipers are designed to keep dust, dirt, sand and others off the rod and the sealing and guiding elements, avoiding abrasive damage caused by external contamination.

Features:

- The profile is designed with interference on the OD which provides a good static fit, preventing the entry of humidity and other contamination via the outside diameter
- Tight seat in the housing ensures that the wiper is held in place
- Prevention of corrosion in the seat due to the use of a retainer ring in hard plastics
- Not suitable for pressure from the trailing side
- For housings acc. to ISO 6195-1986 Type B

Application

- Reciprocating rods in hydraulic cylinders, plungers

Maximum operating conditions:

Correlated to profile and seal material types shown below:

Material	Max Surface Speed (m/sec)
PU/POM*	4
NBR/POM*	4

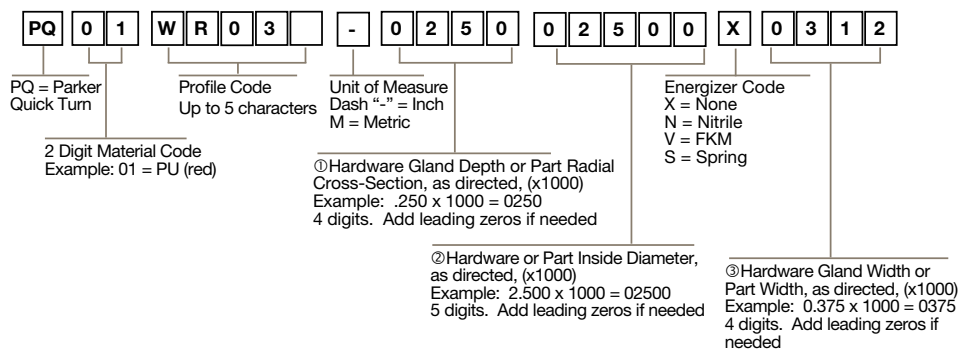
Similar in profile geometry to Parker J Profile.*

*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

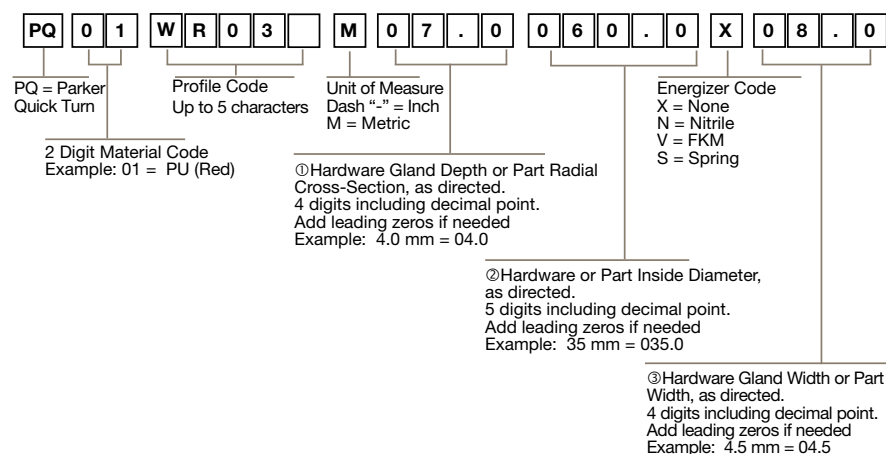
*For technical reasons, POM should be used up to a maximum temperature of 80°C only.

Part Numbering

Part Number Nomenclature – Inch



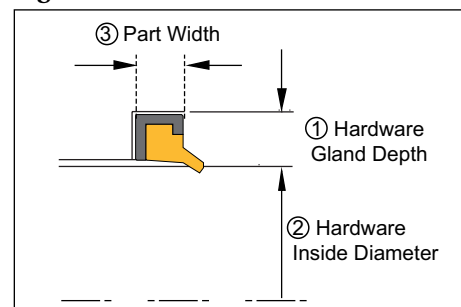
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



NOTE: All sales subject to Parker standard terms of sale (see www.parker.com/saleterms)

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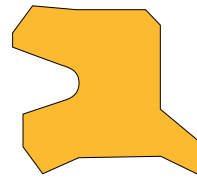


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Wiper WR11



Description

Function:

Wipers are designed to keep dust, dirt, sand and others off the rod and the sealing and guiding elements, avoiding abrasive damage caused by external contamination.

Features:

- The profile is designed with interference on the OD which provides a good static fit, preventing the entry of humidity and other contamination via the outside diameter
- The design of the wiper lip supports the recirculation of the remaining oil film into the cylinder, whilst the exclusion of contamination is guaranteed
- The sealing lip on the fluid side reduces the remaining oil film to a minimum if used in combination with composite seals as a tandem seal
- For housings acc. to ISO 6195-Type C

Application

- Reciprocating rods in hydraulic cylinders, plungers.
- Can also be used as rod seal/wiper combination in pneumatic applications

Note: When the cylinder cannot be dismantled, the wiper can also be installed in cut version. In this case the diameter should be increased by 2-3%.

Maximum operating conditions:

Correlated to profile and seal material types shown below:

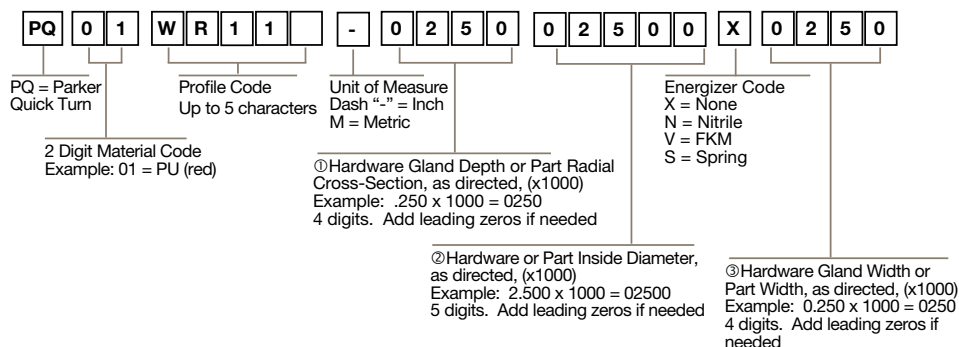
Material	Max Surface Speed (m/sec)
PU/POM	4
NBR/POM	4

Similar in profile geometry to Parker H Profile.*

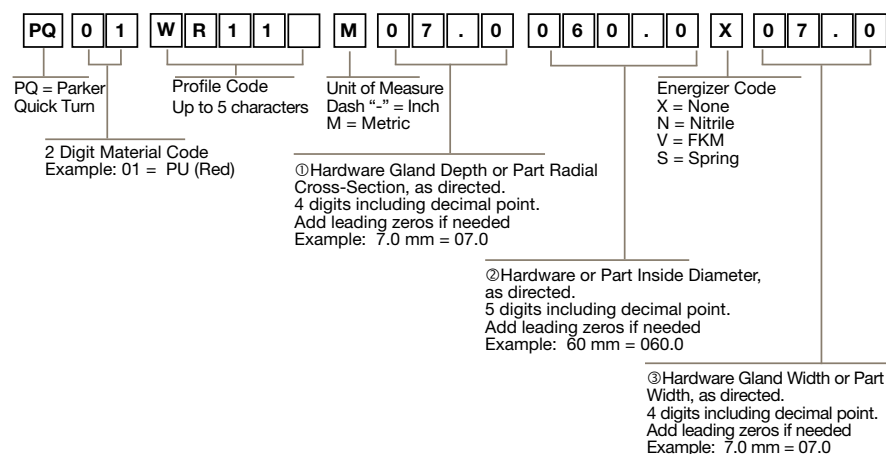
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



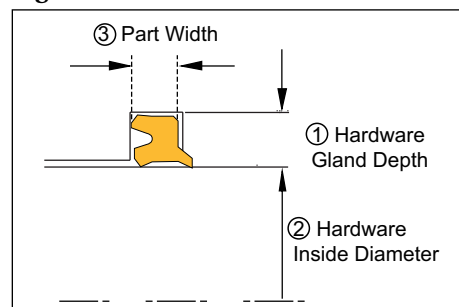
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematics shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



NOTE: All sales subject to Parker standard terms of sale (see www.parker.com/saleterms)

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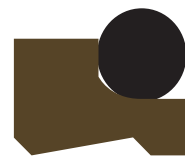


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Wiper WR13



Description

Function:

Wipers are designed to keep dust, dirt, sand and others off the rod and the sealing and guiding elements, avoiding abrasive damage caused by external contamination.

Features:

- The profile is designed with two geometric different lips for wiping off any dirt on the rod and to reduce the residual oil film on the medium side
- The wiper consists of a PTFE wiping part and an o-ring as preload element, maintaining contact pressure on the rod
- Due to the use of an o-ring the wiper is able to compensate deflections of the rod. Mainly used in combination with rod seal RS09B
- Pressure should be limited to 15 bar
- For housings acc. to ISO 6195 Type D

Application

- Reciprocating rods in hydraulic cylinders, swivelling and coiling rods, plungers
- Can also be used as rod seal/wiper combination in pneumatic applications

Note: A large insertion chamfer needs to be provided (angle 20-30°)

Maximum operating conditions:

Correlated to profile and seal material types shown below:

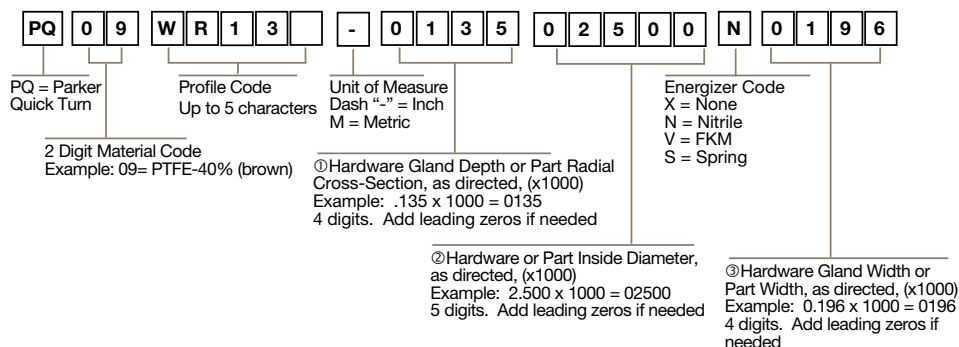
Material	Max Surface Speed (m/sec)
PTFE/NBR	10

Similar in profile geometry to Parker AD Profile.*

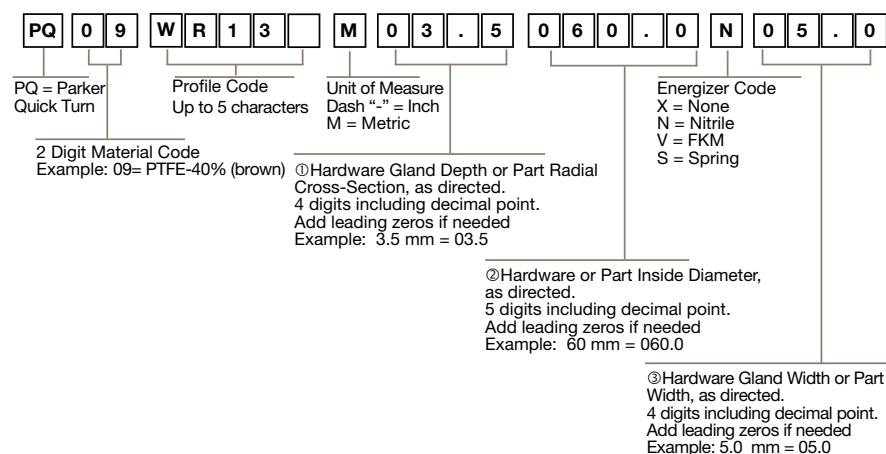
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



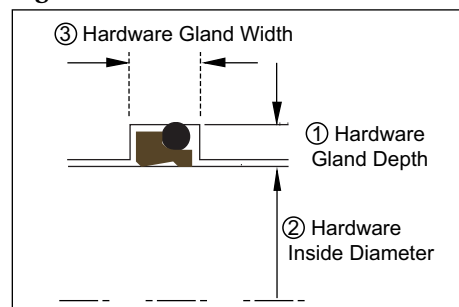
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



NOTE: All sales subject to Parker standard terms of sale (see www.parker.com/saleterms)

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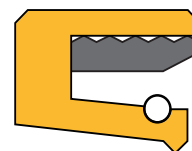


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Rotary Seal OS01



Description

Function:

Rotary seals are designed to seal the pressurized hydraulic fluid against the atmosphere, preventing leakage and pollution of the environment or to transfer liquids and/or gases from a stationary part into or out of rotating machinery.

Features:

- The profile is designed with interference on the OD which provides a good static fit, preventing the entry of humidity and other contamination via the outside diameter
- Tight seat in the housing and an additional retainer ring in hard plastic or Aluminium/Steel ensures that the seal is held in place
- Tension spring for increasing the bonding force
- Not suitable for high pressure from the trailing side

Application

- Pumps, electric motors, swiveling cylinders, etc.

Maximum operating conditions:

Correlated to profile and seal material types shown below:

Material	Pressure (bar)	Max Surface Speed (m/sec)
PU/POM*	0.5	5
NBR/POM*	0.5	10
FKM/PTFE	0.5	25

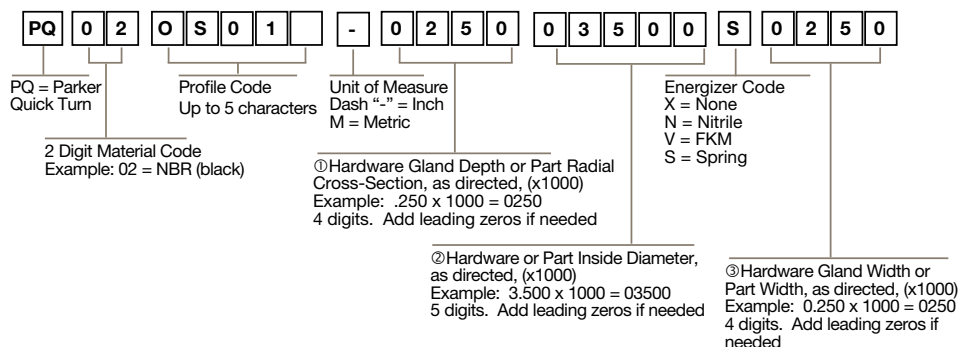
Similar in profile geometry to Parker SB Profile.*

*For technical reasons, POM should be used up to a maximum temperature of 80°C only.

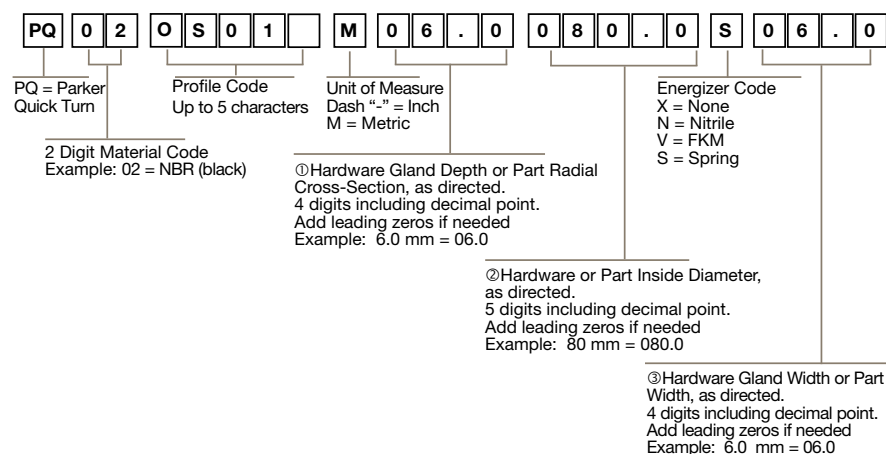
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



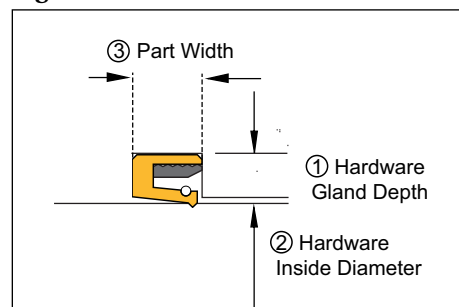
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



NOTE: All sales subject to Parker standard terms of sale (see www.parker.com/saleterms)

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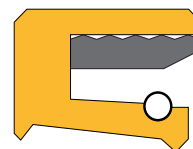


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Rotary Seal OS02



Description

Function:

Rotary seals are designed to seal the pressurized hydraulic fluid against the atmosphere, preventing leakage and pollution of the environment or to transfer liquids and/or gases from a stationary part into or out of rotating machinery.

Features:

- The profile is designed with interference on the OD which provides a good static fit, preventing the entry of humidity and other contamination via the outside diameter
- Additional dust lip for preventing the sealing lip of dirt.
- Tight seat in the housing and an additional retainer ring in hard plastic or Aluminium/Steel ensures that the seal is held in place
- Tension spring for increasing the bonding force
- Not suitable for high pressure from the trailing side

Application

- Pumps, electric motors, swiveling cylinders, etc.

Maximum operating conditions:

Correlated to profile and seal material types shown below:

Material	Pressure (bar)	Max Surface Speed (m/sec)
PU/POM*	0.5	5
NBR/POM*	0.5	10
FKM/PTFE	0.5	25

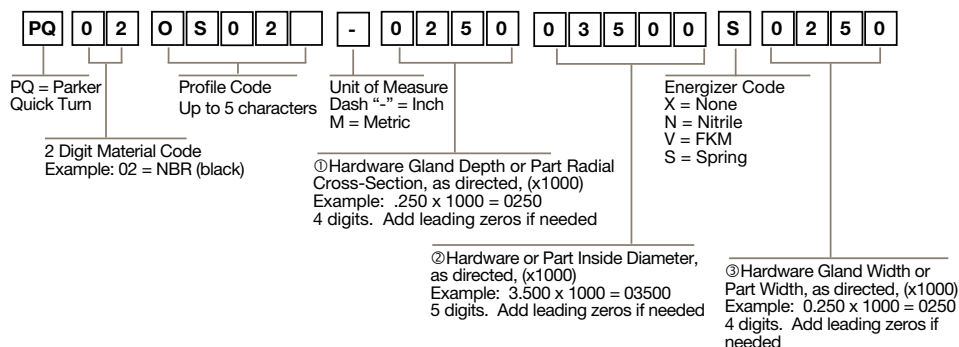
Similar in profile geometry to Parker TB Profile.*

*For technical reasons, POM should be used up to a maximum temperature of 80°C only.

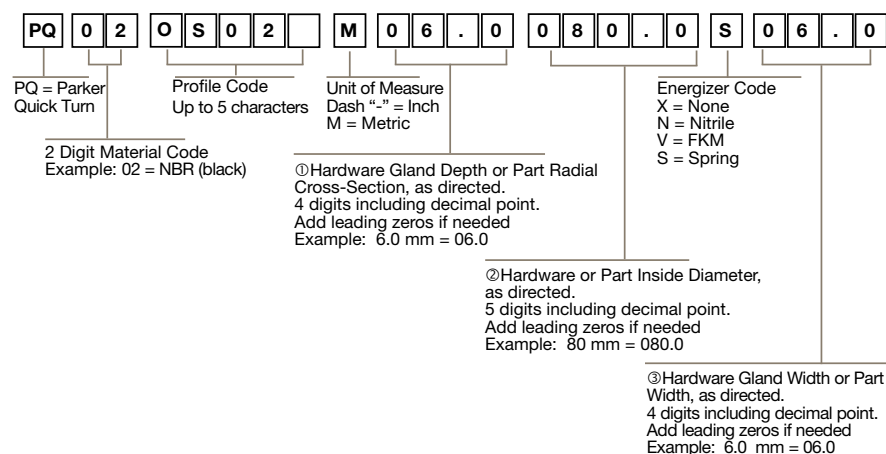
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



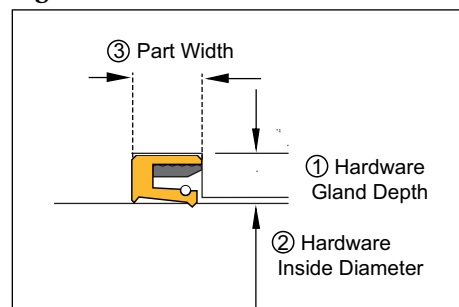
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



NOTE: All sales subject to Parker standard terms of sale (see www.parker.com/saleterms)

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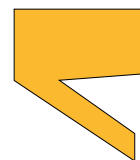


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Rotary Seal OS08



Description

Function:

Rotary seals are designed to seal the pressurized hydraulic fluid against the atmosphere, preventing leakage and pollution of the environment or to transfer liquids and/or gases from a stationary part into or out of rotating machinery.

Features:

- The profile is designed with interference on the OD which provides a good static fit, preventing the entry of humidity and other contamination via the outside diameter
- No spring preloaded sealing lip which enables a compact design
- Small friction and low heat build-up
- Not suitable for pressure from the trailing side

Application

- Needle bearings, sealing of viscous media (i.e. grease), etc.
- Usage as additional wiper

Maximum operating conditions:

Correlated to profile and seal material types shown below:

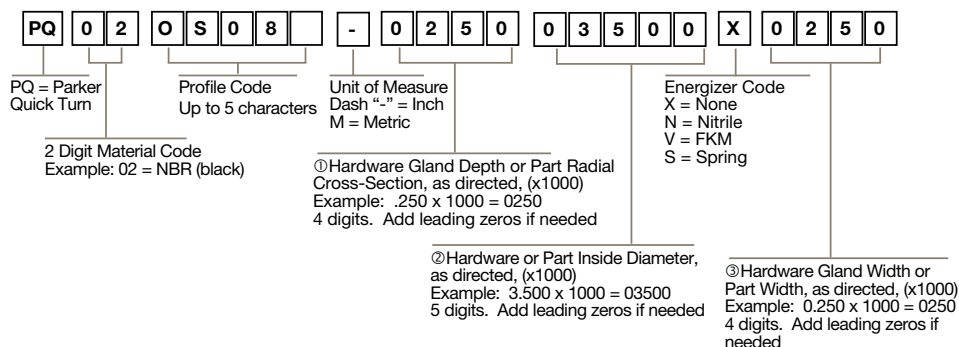
Material	Pressure (bar)	Max Surface Speed (m/sec)
PU	n/a	5
NBR	n/a	10

Similar in profile geometry to Parker VB Profile.*

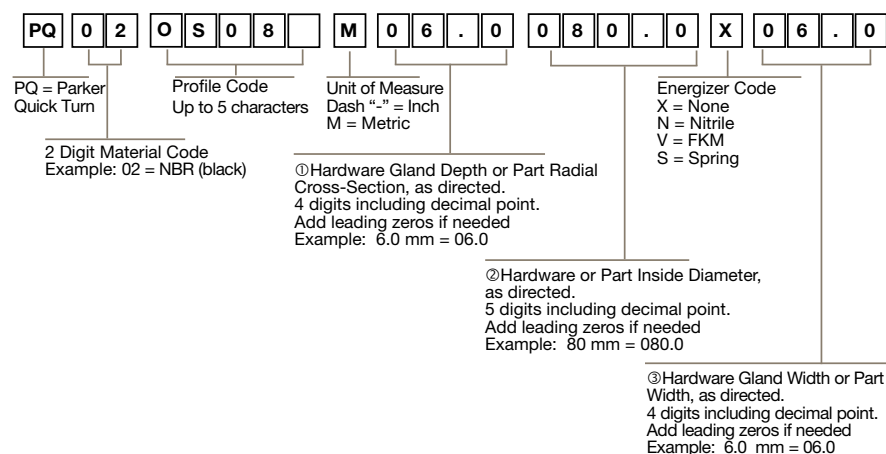
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



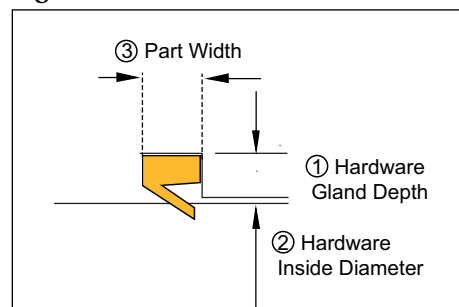
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



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QuickTurn Machined Seals

Parker EPS Division

Profile Description

Rotary Seal VR06



Description

Function:

V-Rings are designed to axially seal bearings against dirt, dust, water, etc. in rotating machinery. The V-Ring itself rotates with the shaft.

Features:

- Rotary seal, designed with interference on the ID which provides a good static fit on the shaft and ensures the seal rotates with the shaft
- Axial dynamic sealing lip vertical to the rod
- Small contact pressure of the sealing lip that enables also “dry running”
- Low friction on the sealing lip - decreasing with the rotation speed as a result of the centrifugal force
- Little abrasion and long lifetime
- Ensurance of sealing also at excentric rods or rod misalignments.
- Pressure must be avoided

Application

- Slow and fast rotating shafts
- Secondary sealing element for primary seal

Maximum operating conditions:

Correlated to profile and seal material types shown below:

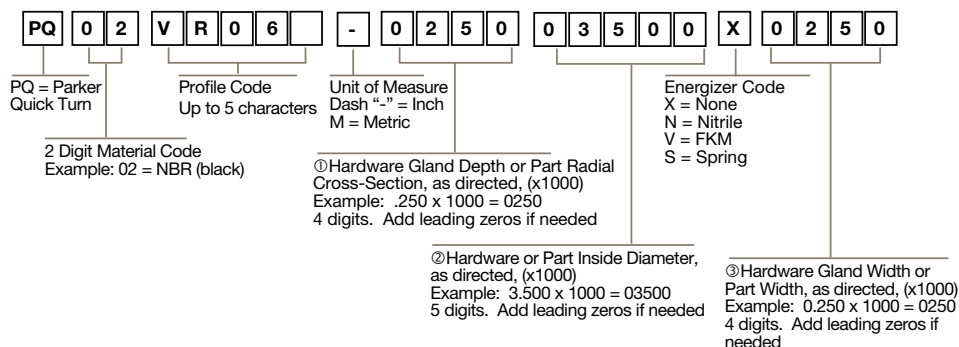
Material	Pressure (bar)	Max Surface Speed (m/sec)
NBR	0	25

Similar in profile geometry to Parker Style A Vee Ring Profile.*

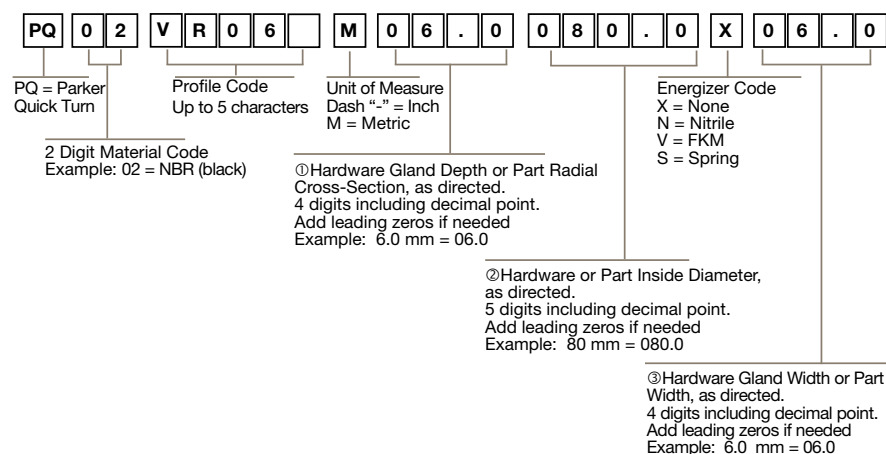
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



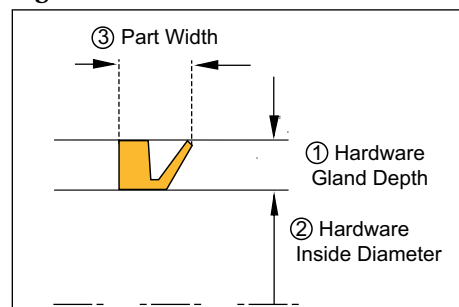
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



NOTE: All sales subject to Parker standard terms of sale (see www.parker.com/saleterms)

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QuickTurn Machined Seals

Parker EPS Division

Profile Description

Rotary Seal VR07



Description

Function:

V-Rings are designed to axially seal bearings against dirt, dust, water, etc. in rotating machinery. The V-Ring itself rotates with the shaft.

Features:

- Rotary seal, designed with interference on the ID which provides a good static fit on the shaft and ensures the seal rotates with the shaft
- Axial dynamic sealing lip vertical to the rod
- Small contact pressure of the sealing lip that enables also “dry running”
- Low friction on the sealing lip - decreasing with the rotation speed as a result of the centrifugal force
- Little abrasion and long lifetime
- Ensurance of sealing also at excentric rods or rod misalignments.
- Pressure must be avoided

Application

- Slow and fast rotating shafts
- Secondary sealing element for primary seal

Maximum operating conditions:

Correlated to profile and seal material types shown below:

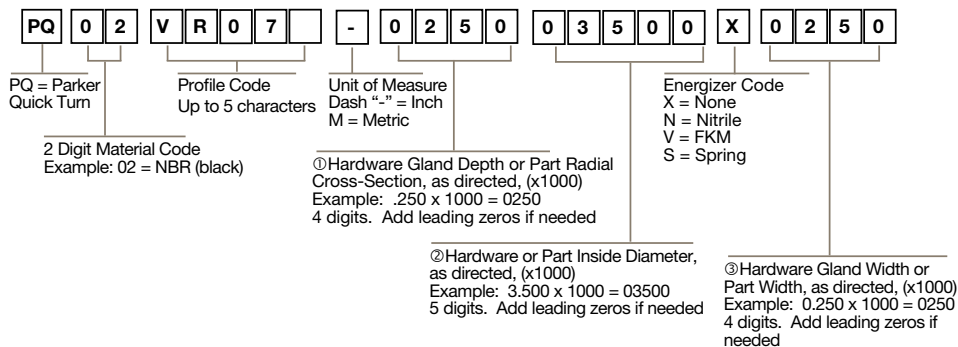
Material	Pressure (bar)	Max Surface Speed (m/sec)
NBR	0	25

Similar in profile geometry to Parker Style S Vee Ring Profile.*

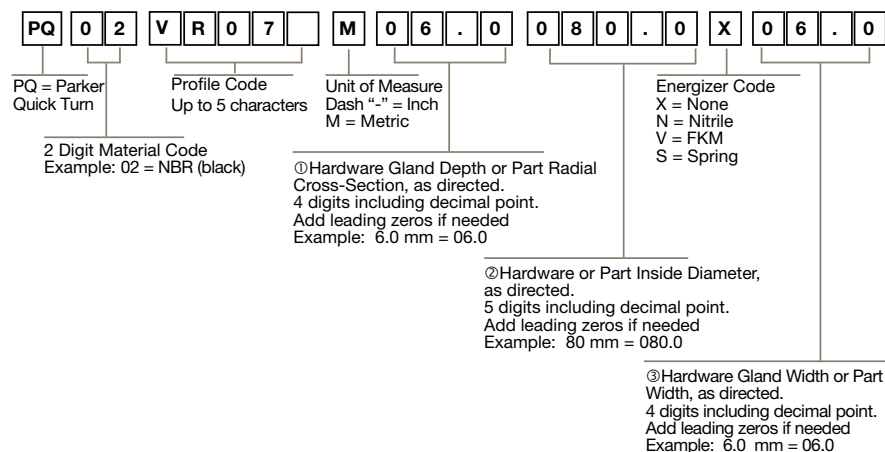
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



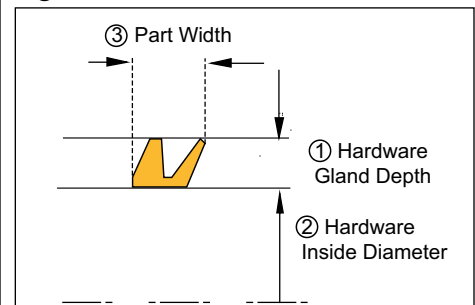
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



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QuickTurn Machined Seals

Parker EPS Division

Profile Description

Rotary Seal R09



Description

Function:

Rotary seals are designed to seal the pressurized hydraulic fluid against the atmosphere, preventing leakage and pollution of the environment or to transfer liquids and/or gases from a stationary part into or out of rotating machinery.

Features:

- Asymmetrical, double acting rotary seal for inside sealing, designed with interference of the o-ring on the OD and no interference of the PTFE glide ring on the ID
- Excellent sealing performance at low speeds with high pressure
- Peripheral grooves that enable the build up of a lubricant reservoir
- No tendency to “stick-slip” effect
- Low break-away load after long standstills
- Good gap extrusion resistance

Application

- Slow moving shafts, pivoting movements, revolving distributors, swivel joints

Maximum operating conditions:

Correlated to profile and seal material types shown below:

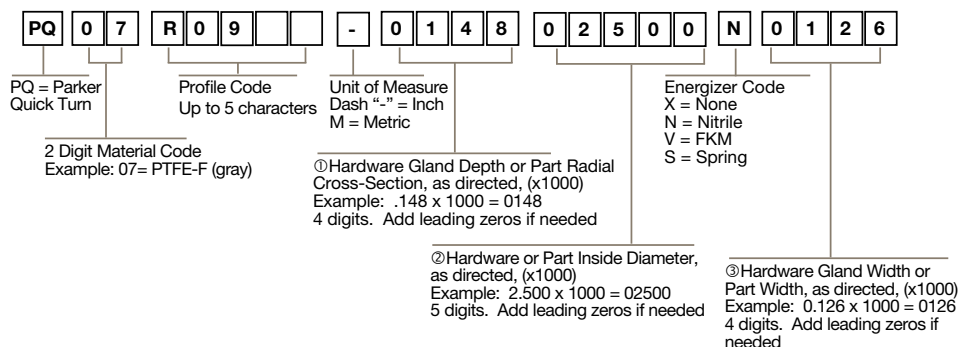
Material	Max Pressure (bar)	Max Surface Speed (m/sec)
PTFE/NBR	350	0.4

Similar in profile geometry to Parker OR Profile.*

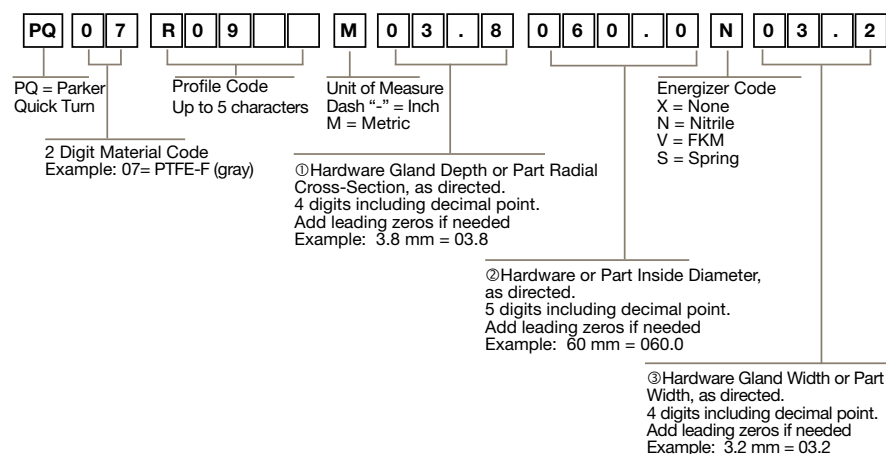
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



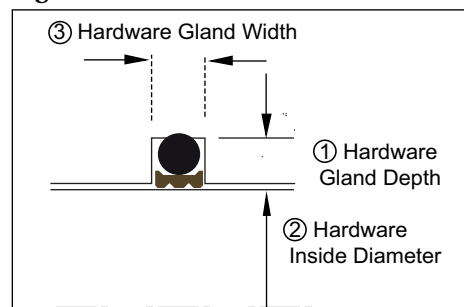
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



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Parker EPS Division

Profile Description

Rotary Seal R10



Description

Function:

Rotary seals are designed to seal the pressurized hydraulic fluid against the atmosphere, preventing leakage and pollution of the environment or to transfer liquids and/or gases from a stationary part into or out of rotating machinery.

Features:

- Asymmetrical, double acting rotary seal for outside sealing, designed with interference of the o-ring on the ID and no interference of the PTFE glide ring on the OD
- Excellent sealing performance at low speeds with high pressure
- Peripheral grooves that enable the build up of a lubricant reservoir
- No tendency to “stick-slip” effect
- Low break-away load after long stand stills
- Good gap extrusion resistance

Application

- Slow moving shafts, pivoting movements, revolving distributors, swivel joints

Maximum operating conditions:

Correlated to profile and seal material types shown below:

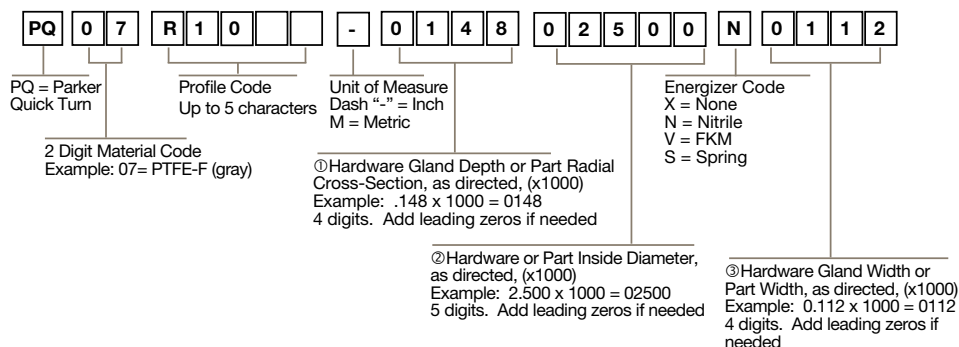
Material	Pressure (bar)	Max Surface Speed (m/sec)
PTFE/NBR	350	0.4

Similar in profile geometry to Parker OQ Profile.*

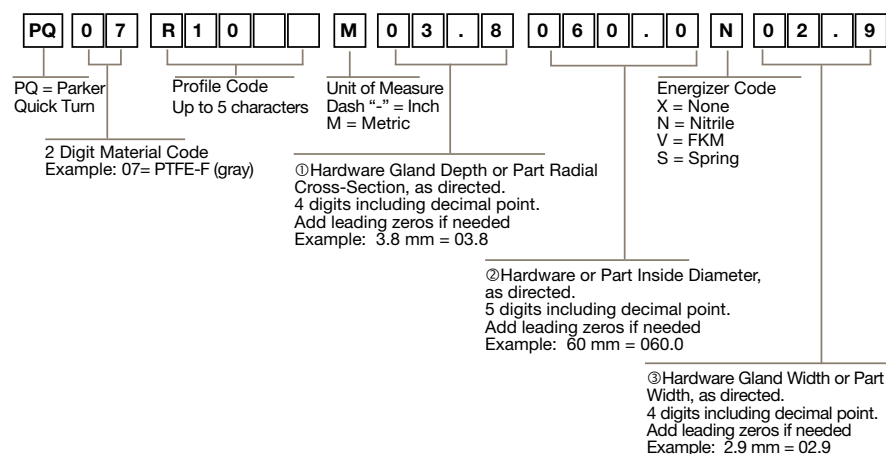
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



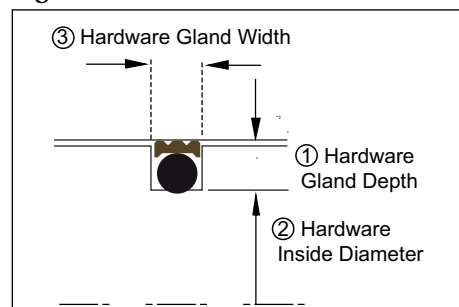
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



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EPS-5252-R10 10/2017 TMR/POD

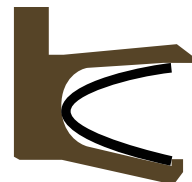


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Rotary Seal RS19A



Description

Function:

Rotary seals are designed to seal the pressurized hydraulic fluid against the atmosphere or between two pressurized spaces.

Features:

- Asymmetrical, single acting rotary seal with clamping flange
- Preload effected through V-spring
- Dynamic sealing lip shorter than static lip to avoid drag pressure
- Excellent static and dynamic sealing performance
- Useable for short and long stroke lengths
- Low friction in dry running or poor lubrication conditions, no stick-slip effect

Application

- Reciprocating and swivelling shafts
- Chemical and pharmaceutical industry, aggressive fluids and high temp

Maximum operating conditions:

Correlated to profile and seal material types shown below:

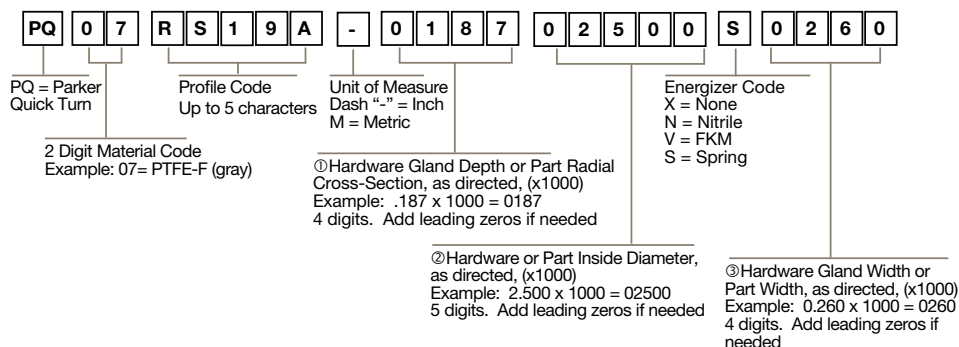
Material	Pressure (bar)	Max Surface Speed (m/sec)
PTFE/V-spring	150	2

Similar in profile geometry to Parker FF-style FlexiSeal™ Profile.*

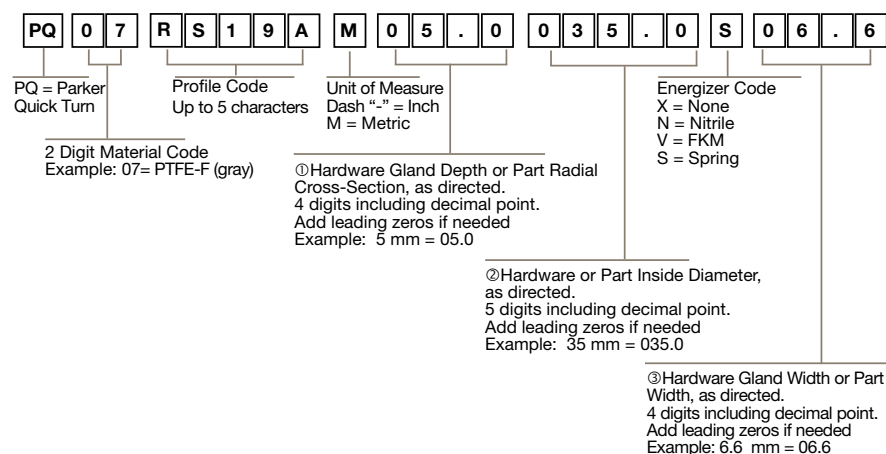
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



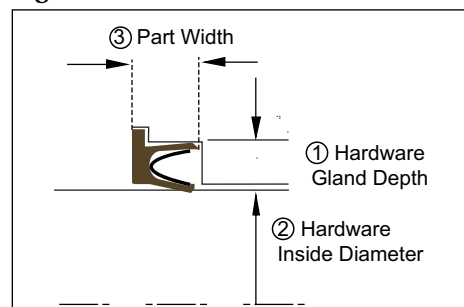
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



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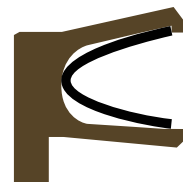


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Rotary Seal PS19A



Description

Function:

Rotary seals are designed to seal the pressurized hydraulic fluid against the atmosphere or between two pressurized spaces.

Features:

- Asymmetrical, single acting rotary seal with clamping flange
- Preload effected through V-spring
- Dynamic sealing lip shorter than static lip to avoid drag pressure
- Excellent static and dynamic sealing performance
- Useable for short and long stroke lengths
- Low friction in dry running or poor lubrication conditions, no stick-slip effect

Application

- Reciprocating and swivelling pistons or housings
- Chemical and pharmaceutical industry, aggressive fluids and high temp

Maximum operating conditions:

Correlated to profile and seal material types shown below:

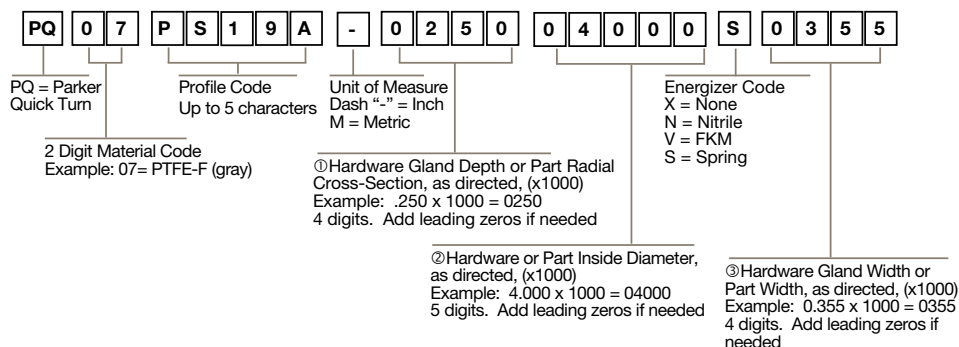
Material	Pressure (bar)	Max Surface Speed (m/sec)
PTFE/V-spring	150	2

Similar in profile geometry to Parker FF-style FlexiSeal™ Profile.*

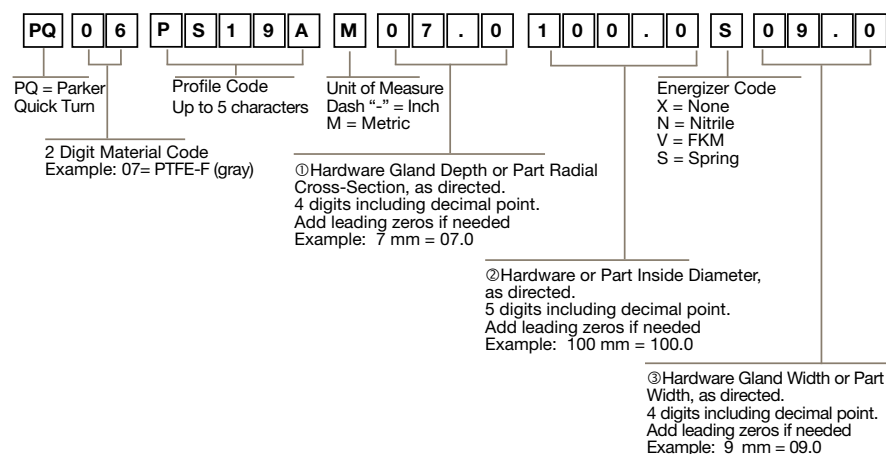
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



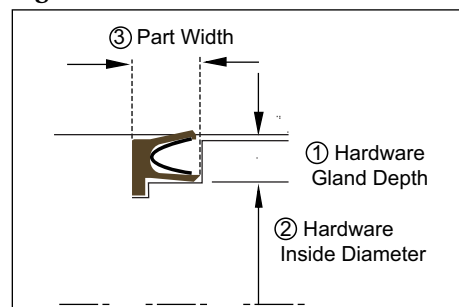
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



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QuickTurn Machined Seals

Parker EPS Division

Profile Description

Back-up Ring BUR08*



Description

Function:

Back-up rings do not have a sealing function. They are designed to prevent elastic sealing elements such as o-rings or X-rings from gap extrusion.

Features:

- Normally cut at an angle for easy installation, but also available as non-split version
- Low dynamic friction
- Low break-away forces after long standstills
- Activated back-up rings reduce gap extrusion and prevent twisting of the seal in the groove

Application

- Dynamic and static applications in reciprocating pistons and rods in hydraulic cylinders, plungers, etc.
- Unfavourable tolerances and wide gap dimensions
- Intensely pulsating pressures and pressure change

*Profile Codes Depending on End Cut:

- BUR08 = ENDLESS
- BUR18 = SKIVE CUT (22°)
- BUR28 = BUTT CUT

Operating conditions:

Correlated to profile and seal material types shown below:

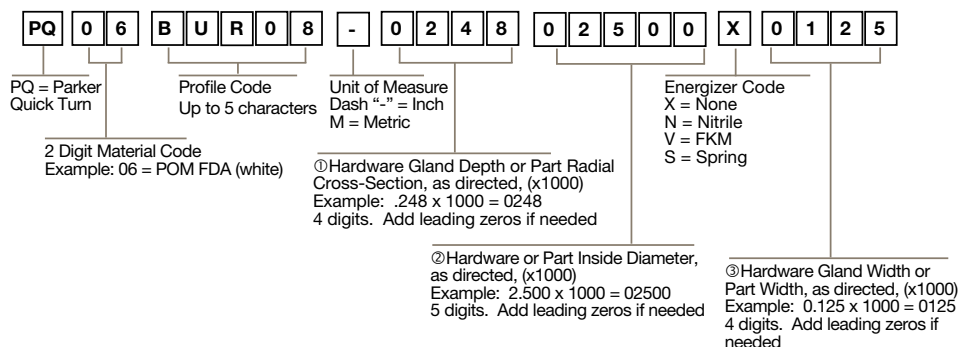
Material	Temp. °C
PU	-30 to 105
POM	-60 to 100
PTFE	-200 to 260

Similar in profile geometry to Parker 8700 Profile.[†]

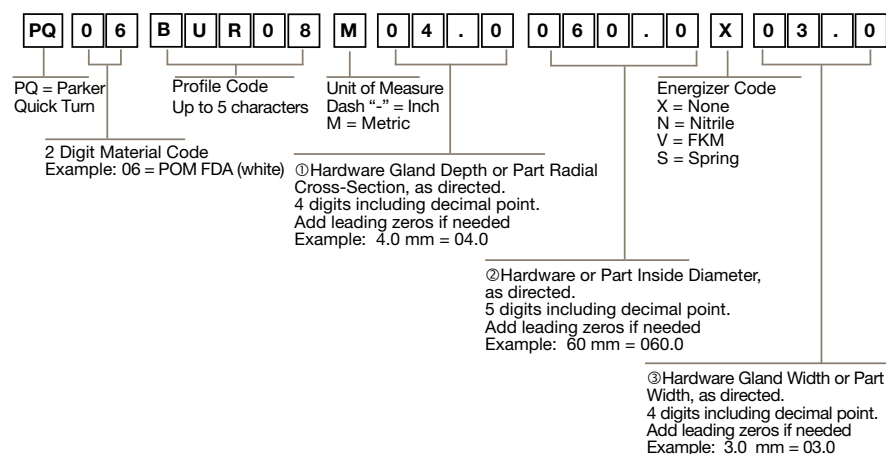
[†]Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



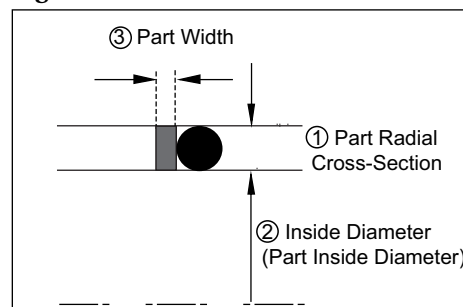
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



NOTE: All sales subject to Parker standard terms of sale (see www.parker.com/saleterms)

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QuickTurn Machined Seals

Parker EPS Division

Profile Description

Back-up Ring BUR09*



Description

Function:

Back-up rings do not have a sealing function. They are designed to prevent elastic sealing elements such as o-rings or X-rings from gap extrusion.

Features:

- Especially designed for use with o-rings; improved stability of the elastomer o-ring
- Normally cut at an angle for easy installation; also available as non-split and butt-cut
- Low dynamic friction. Low break-away forces after long standstills
- Activated back-up rings reduce gap extrusion and prevent twisting of the seal in the groove

Application

- Dynamic and static applications in reciprocating pistons and rods in hydraulic cylinders, plungers, etc.
- Unfavourable tolerances and wide gap dimensions
- Intensely pulsating pressures and pressure change

*Profile Codes Depending on End Cut:

- BUR09 = ENDLESS
- BUR19 = SKIVE CUT (22°)
- BUR29 = BUTT CUT

Operating conditions:

Correlated to profile and seal material types shown below:

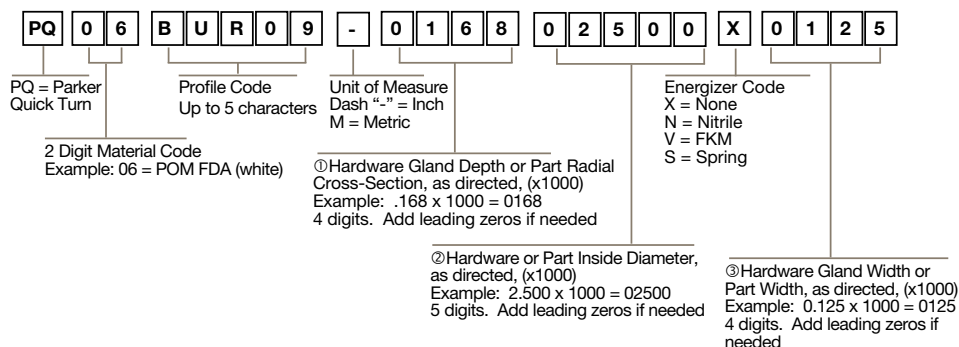
Material	Temp. °C
PU	-30 to 105
POM	-60 to 100
PTFE	-200 to 260

Similar in profile geometry to Parker 5100 Profile.†

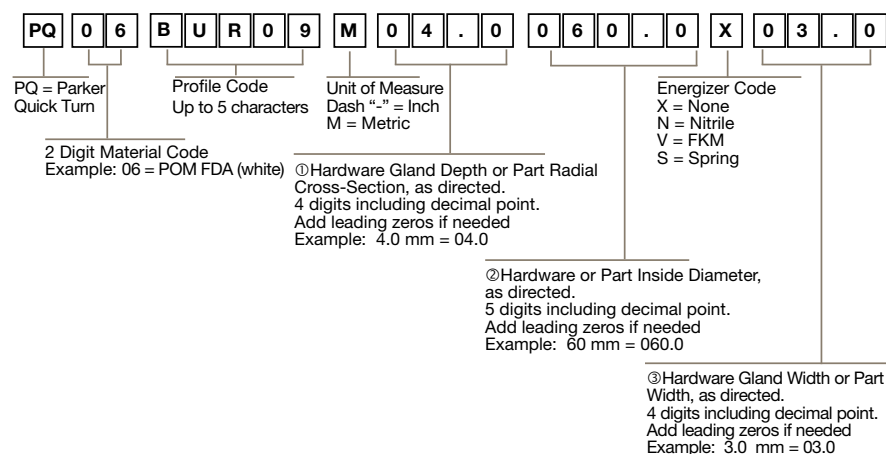
†Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



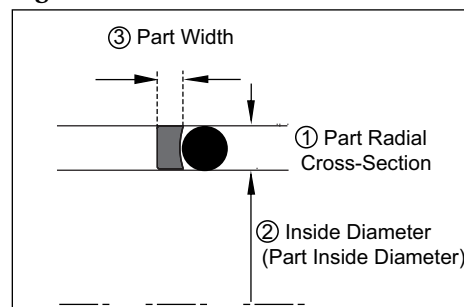
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



NOTE: All sales subject to Parker standard terms of sale (see www.parker.com/saleterms)

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QuickTurn Machined Seals

Parker EPS Division

Profile Description

Guide Ring BWR01*



Description

Function:

Guiding elements are designed to prevent metal to metal contact between components of hydraulic systems e.g. piston and cylinder barrel or shaft and cylinder head.

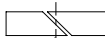
Features:

- Normally cut at an angle for easy installation, but also available as non-split version
- Low dynamic friction
- Low break-away forces after long standstills

Application

- Reciprocating pistons and rods in hydraulic cylinders, plungers.
- Max. speed 4 m/s, radial loads max. 70 N/mm²

*Profile Codes Depending on End Cut:

- BWR01 = ENDLESS
- BWR11 = SKIVE CUT (22°) 
- BWR21 = BUTT CUT 

Operating conditions:

Correlated to profile and seal material types shown below:

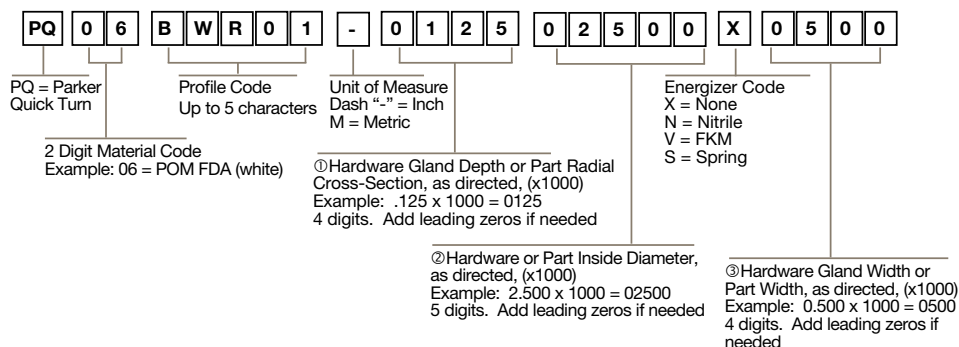
Material	Temp. °C	Max Surface Speed (m/sec)
POM	-60 to 100	4
PTFE	-200 to 260	4

Similar in profile geometry to Parker WN Profile.[†]

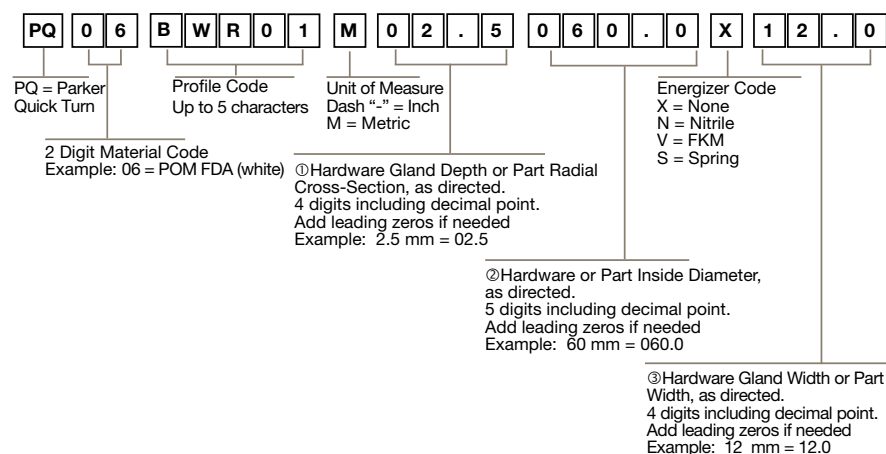
[†]Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



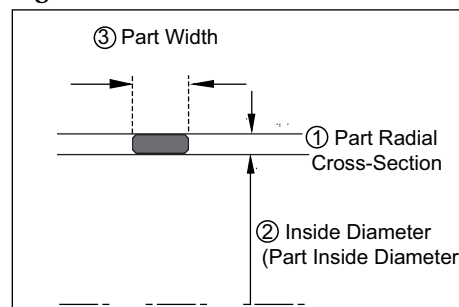
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



NOTE: All sales subject to Parker standard terms of sale (see www.parker.com/saleterms)

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EPS-5252-BWR01 10/2017

TMR/POD



QuickTurn Machined Seals

Parker EPS Division

Profile Description

Guide Ring BWR01A*



Description

Function:

Guiding elements are designed to prevent metal to metal contact between components of hydraulic systems e.g. piston and cylinder barrel or shaft and cylinder head.

Features:

- Spiral groove on the outside diameter for better lubrication
- Normally cut at an angle for easy installation, but also available as non-split version
- Low dynamic friction
- Low break-away forces after long standstills

Application

- Reciprocating pistons and rods in hydraulic cylinders, plungers.
- Max. speed 4 m/s, radial loads max. 70 N/mm²

*Profile Codes Depending on End Cut:

- BWR01A = ENDLESS
- BWR11A = SKIVE CUT (22°)
- BWR21A = BUTT CUT

Operating conditions:

Correlated to profile and seal material types shown below:

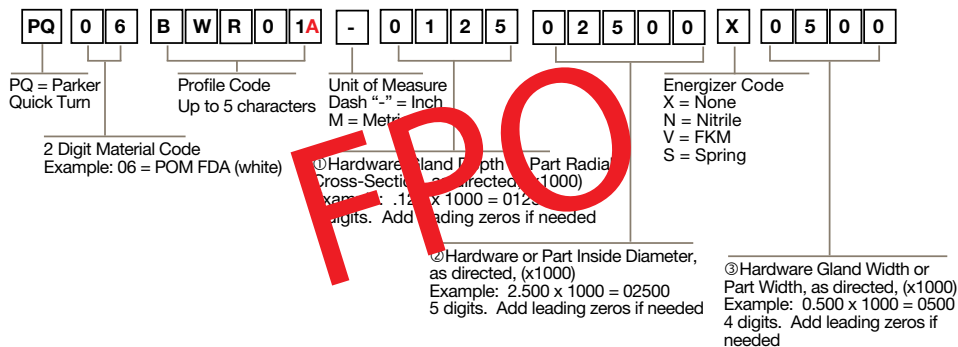
Material	Temp. °C	Max Surface Speed (m/sec)
POM	-60 to 100	4
PTFE	-200 to 260	4

Similar in profile geometry to Parker PBT Profile.†

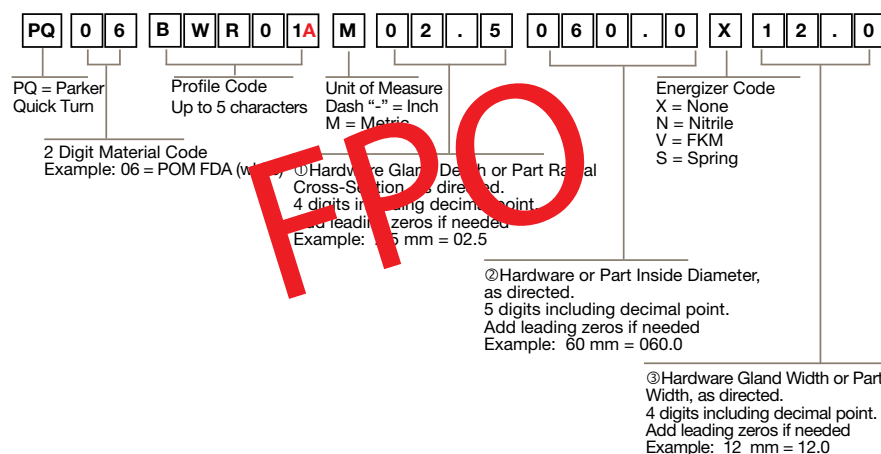
†Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



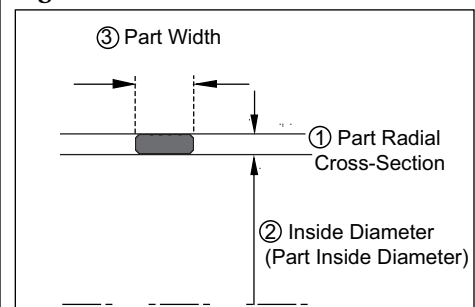
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



NOTE: All sales subject to Parker standard terms of sale (see www.parker.com/saleterms)

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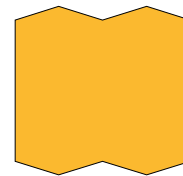


QuickTurn Machined Seals

Parker EPS Division

Profile Description

Static Seal SS01



Description

Function:

The SS01 seal is a double acting seal, activated by the system pressure. The sealing effect is generated by axial or radial preload. The preload of the seal is superposed by the hydraulic pressure, thus assuring the overall sealing pressure.

Features:

- Better pressure distribution compared to o-rings
- Flexible dimensioning of the seal for use also in special dimensioned grooves
- Sealing over a wide range of pressures, temperatures and tolerances
- Wide application ranges
- Simple mounting
- Compact and simple grooves
- Easy and cost saving constructions possible

Application

- Mainly used as static seal (e.g. flanges and threaded joints) but also used at rotation and linear movement applications

Maximum operating conditions:

Correlated to profile and seal material types shown below:

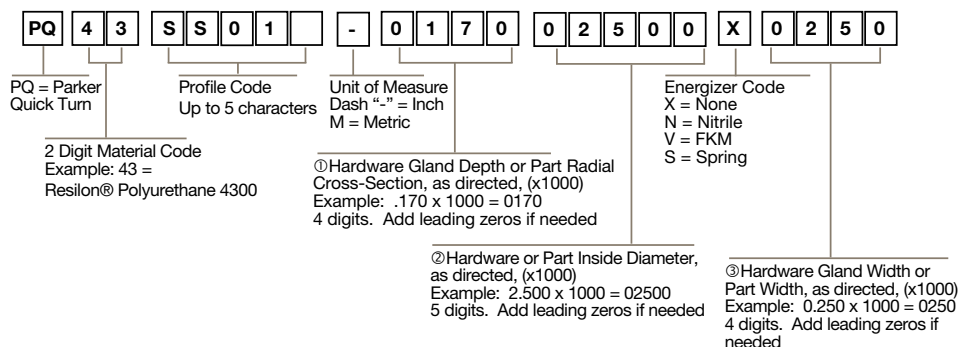
Material	Max Pressure (bar)
PU	600
NBR	160
FPM	160

Similar in profile geometry to Parker HS Profile.*

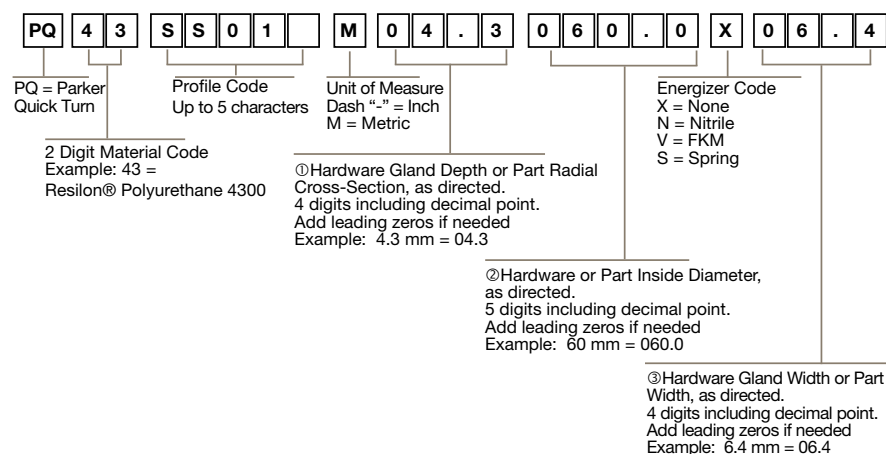
*Information provided as approximate cross-reference guide only. Not an identical match to the Parker-engineered design.

Part Numbering

Part Number Nomenclature – Inch



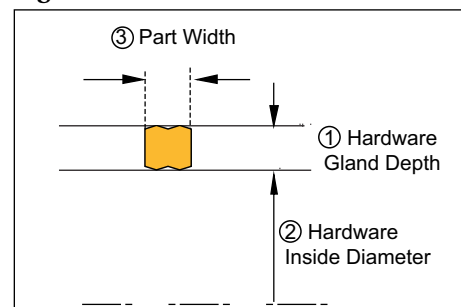
Part Number Nomenclature – Metric



How to Configure a Part Number

- Identify your unit of measure as either Inch or Metric
- Select your Seal Material (and energizer, if applicable)
- Utilizing the respective part number schematic shown to the left (inch or metric), create your part number from the dimensions which correlate to the illustration below (Fig 1)

Fig 1.



NOTE: All sales subject to Parker standard terms of sale (see www.parker.com/saleterms)

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