

Custom Made Seals on Demand

Allegheny York manufactures wipers, rod and piston seals, backup rings, bearings, and guide rings to meet any demand. Using advanced rapid prototyping technology, parts can be made from over 100 profiles (Pages 8 - 9) for possible same-day delivery using AY's extensive inventory of materials (Page 7). AY's Engineering team will design the part to fit the application and supply a drawing and quotation for customer approval prior to machining.

Size Capabilities:

Inch

Metric

5/16" I.D. to 23-1/2" O.D. / 8 mm I.D. to 600mm O.D.

Information needed to make a custom part:

Part Profile: Determine the type of seal needed (Rod Seal, Piston Seal, Wiper, Back-up, etc...) Then, use the Profile Selection Chart on pages 8-9 to select the specific profile. Contact AY's Engineering Department for custom profiles and alternatives.

Dimensions: Customer should provide the metal dimensions of the groove in either standard or metric if possible. Seal measurements are also acceptable.

Material: Select material on page 7. The Engineering Department may suggest alternatives based on the customer's application.

Operating Conditions: Customer should provide as much information as possible about temperature, pressure, speed, chemical contact, and any other operating conditions where the part will be used. Issues with the current seal is also useful information.



Online Quote Request Form

- Temperature Max/Min. _____
- Application _____
- Media _____
- Pressure Max/Min. _____
- Speed Max/Min. _____



Larger Quantity items:

Allegheny York has the capability of injection molding or compression molding in larger quantities at lower prices. Contact the Engineering department for more information.

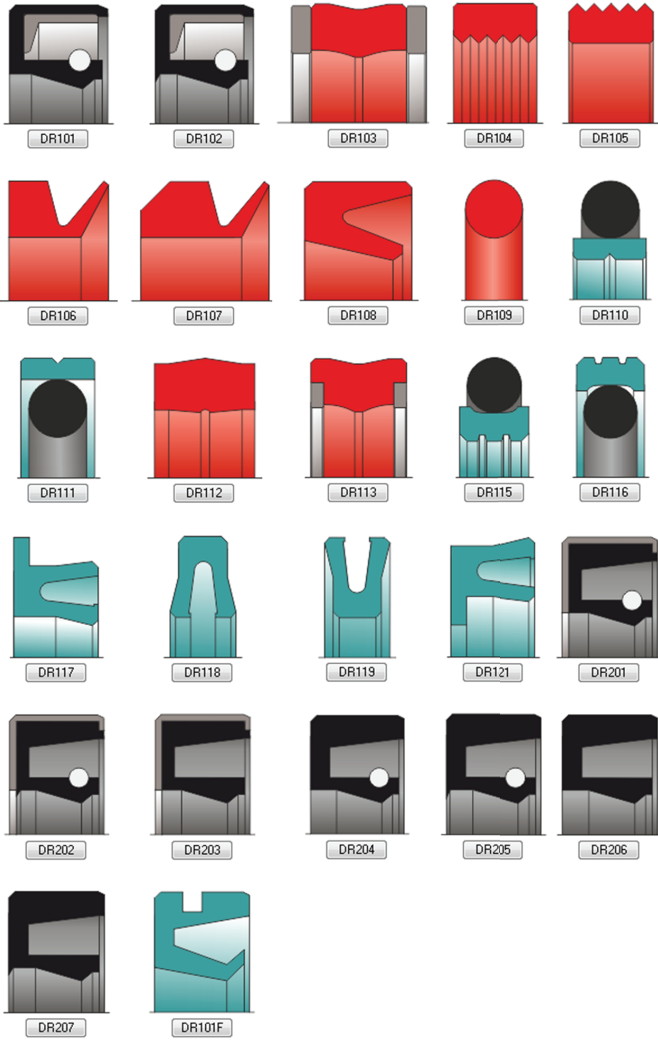


Material Selection Guide

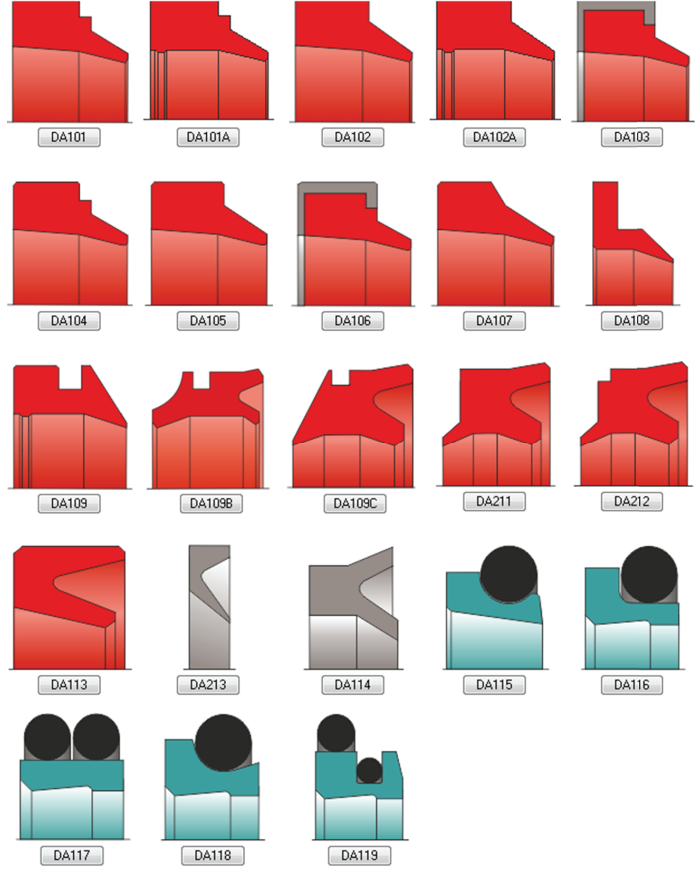
Material Code	Material Description	Other Names	Standard Color
01	Other Urethanes	PU, Polyurethane	Black, Blue, Red
02	Water Resistant Urethane	H-PU, Water PU	Red
03	NBR Rubber	NBR, Nitrile, Buna	Black
04	Highly Saturated Nitrile	HNBR, HSN	Green, Black
05	KTW EPDM	EPDM, Ethylene Propylene	Black
06	Silicone	Silicone	Natural, Clear, Blue
07	FKM	Fluorocarbon, Viton®, FPM	Brown, Black, Green
08	Delrin® / POM	POM, Acetal	White
09	Nylon	PA, Poly Amid	Natural, Black, Grey
10	Virgin PTFE	TFE, Polytetrafluoroethylene, Teflon®	White
11	15% / 5% Glass-Moly Filled PTFE	15/5 GMTFE	Gray
12	40% Bronze Filled PTFE	40% B-TFE	Brown
13	60% Bronze Filled PTFE	60% B-TFE	Brown
14	25% Carbon Graphite Filled PTFE	25% CG-TFE	Black
15	15% Graphite Filled PTFE	15% G-TFE	Black
16	25% Carbon Only PTFE	25% Carbon Only	Black
17	15% Glass Filled PTFE	15% GL-TFE	White
18	Low temp NBR	TNBR	Black
19	FDA-EPDM	Ethylene Propylene	Black, White
20	FDA - FKM	Fluorocarbon	Brown
22	25% Glass Filled TFE	25% G-TFE	Natural, White, Blue
23	Hytrel® 40d (90A shore)	Polyester	Black
25	Hytrel® 63d	Polyester	Blue, White, Natural
26	Hytrel® 72d	Polyester	Blue, Orange, Natural
27	Hytrel® 55d	Polyester, Polymyte®	Orange, Blue
28	Nylon 33% Glass Filled	33%GL-PA	Black
29	Carboxylated Nitrile	X-NBR	Black
30	Nylon 40% Mineral Filled	40%M-PA	White
33	Aluminum	Aluminum	Silver
34	Phenolic	Phenolic	Brown Fiber
35	Springs	Garter, Meander, spring-locks	Stainless Steel
36	Low Temp Urethane	PU, Polyurethane	Blue
38	Urethane 55 durometer	PU, Polyurethane	Yellow
39	Urethane 72 durometer	PU, Polyurethane	
40	Aqua Blue Virgin PTFE	PTFE	Aqua Blue
41	UHMW	Low Density Polyethylene	White
42	20% Polyamide/TFE (Rulon J)	Rulon J	Brown, Gold
43	Delrin® 500AF	Teflon® Filled Acetal, POM	Brown
44	AFLAS	AFLAS	Black
45	PVDF	Polyvinylidene Fluoride	Natural
46	SAE 660 Bronze	Bronze	Bronze
48	PEEK	Polyetheretherkeytone	Light Brown
49	85 Duro Neoprene	Chloroprene	Black
50	Mineral Filled PTFE		Off White
51	FDA NBR	Nitrile, Buna	White

Custom Seal Profiles

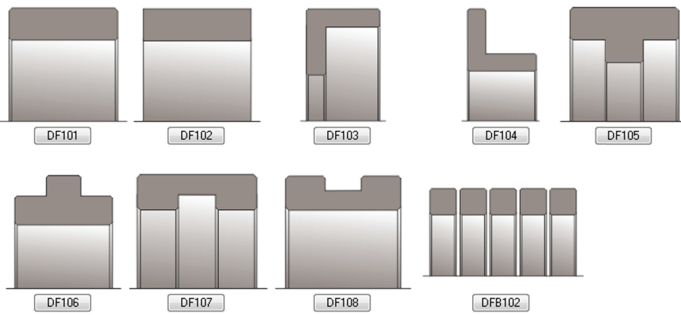
Rotary Shaft Seals



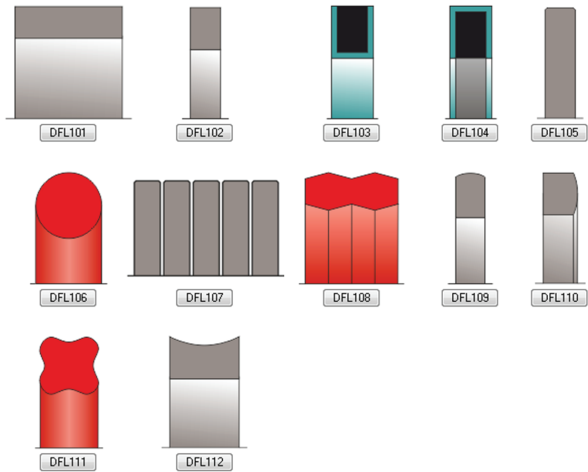
Wipers



Guide Rings



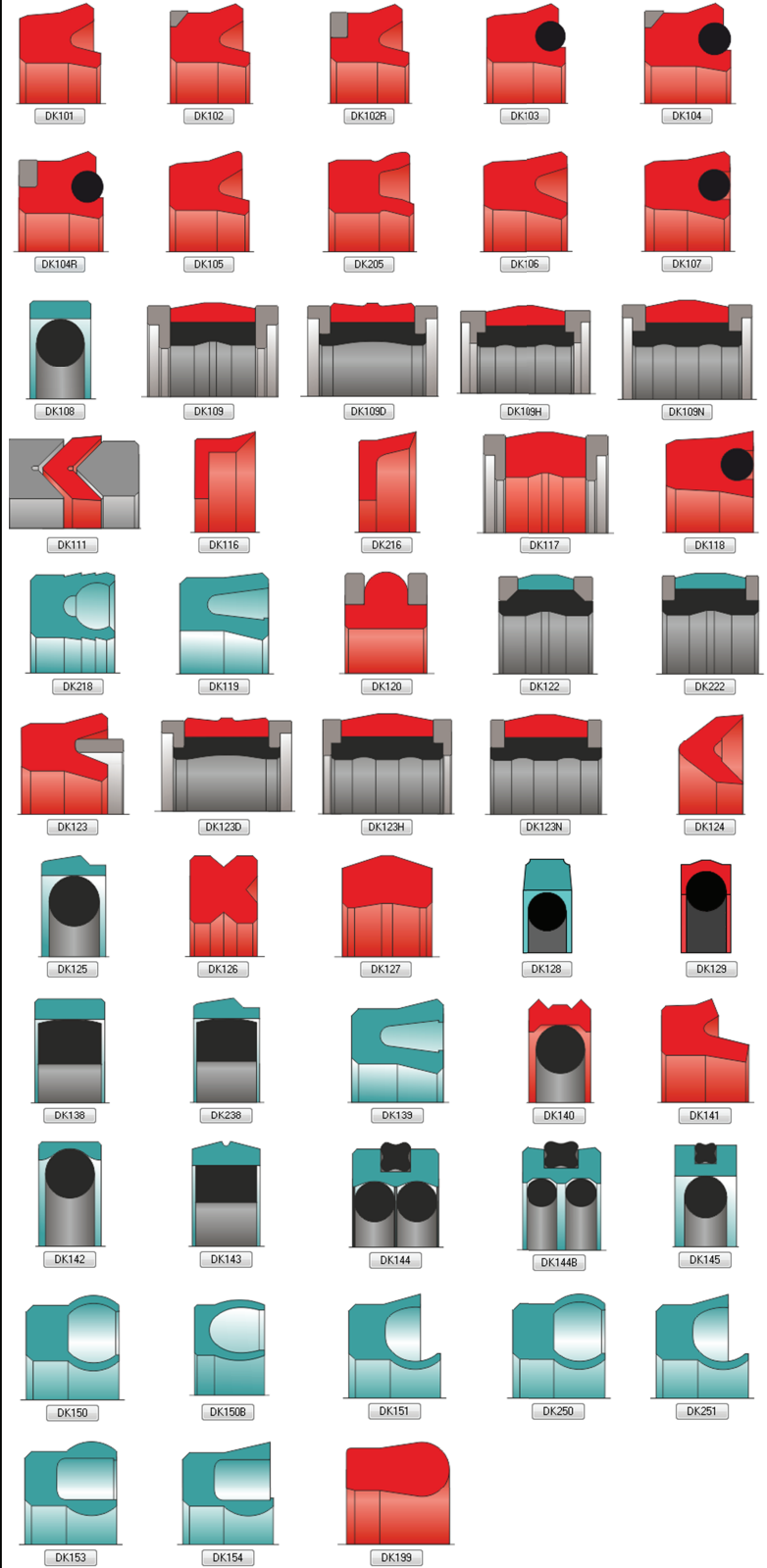
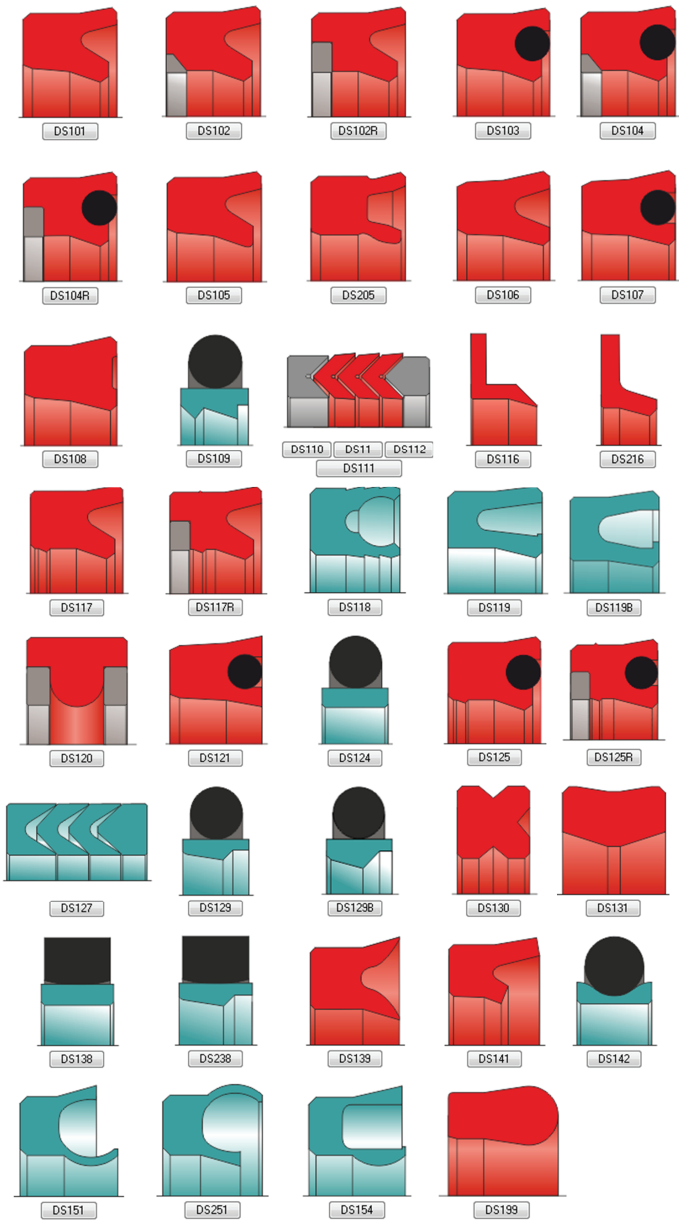
Gaskets



Custom Seal Profiles

Rod Seals

Piston Seals



Back-Up Rings

