	Lip Style	"S"	et man	"V"	"K"
OD Style		Low-pressure single lip with garter spring without protection from contaminates.	Low-pressure dual lip with garter spring with protection from contaminates.	Non-pressure single lip without garter spring without protection from contaminates.	Non-pressure dual lip without garter spring with protection from contaminates.
		SC	TC	VC	КС
"C"	Rubber cover OD for improving OD sealing ability.				
"B"	Precision ground OD surface with a lead-in chamfer for ease of installation.	SB	TB	VB	KB
"A"	Precision ground OD surface with a inner case providing increased structural rigidity.	SA	TA	VA	KA
"F"	Rubber cover OD for improving OD sealing ability, with additional rubber fully protecting the inner case.	SF	TF	VF	KF
"M"	Precision ground OD surface with a lead-in chamfer with an additional inner rubber lining.	SM	TM	VM	KM

TCM Type	Design Characteristics		Seal	Style	
"D"	Two opposing spring loaded lips, designed for applications where the separation of two medials is required.	DA	DB (	DC (III)	DM
" <b>Z</b> "	Precision ground OD and a rubber covered top face for improved sealing ability.	SZ	TZ (S)	VZ	KZ
" <b>G</b> "	Corrugated OD for applications where the housing material is subject to large thermal expansion or press fitting into a housing where installation is usually difficult.	SG	TG	S S	KG
"H"	Precision ground OD with added structural rigidity particularly when there is a large radial seal width. It also allows installation from both sides.	SH	VH amma gmand	SH1 annuan gunni	VHY
66 233	Rubber OD with flange will allow easy installation or replacement, gives additional structural rigidity and restricts the installation depth into the housing.	SCJ	TCJ	VCJ	KCJ KCJ
"J"	Precision ground OD with flange will allow easy installation or replacement, gives additional structural rigidity and restricts the installation depth into the housing.	SBJ	TBJ	VBJ	KBJ
459	Precision ground, reinforced OD with minimum clearance flange that will allow easy installation or replacement and restricts the installation depth into the housing.	SAP	TAP	VAP	KAP
"P"	Precision ground OD with minimum clearance flange that will allow easy installation or replacement and restricts the installation depth into the housing.	SBP	TBP	VBP	KBP

TCM Type	Design Characteristics	Seal Style			
"L"	Precision ground OD with a rolled leading edge to aid in the alignment during installation.	SL	TL grant	VL (	KL
"Х"	The cavity will allow pre- lubrication of the seal to combat initial dry running or where space is limited and a secondary lip for dust exclusion is required.	TXA	TXB	TXC	TXM
"X1"	Similar to the "X" type, but with a larger cavity for pre-lubrication of the seal to combat initial dry running or where space is limited and a secondary lip for dust exclusion is required.	TX1A	TX1B	TX1C	TX1M
"BC" "BG"	This design provides the benefit of a metal-to-metal press fit and the rubber OD sealing ability to counter rough or worn housings.	SBC	TBC	SBG	TBG
"U"	Triple flat lip design for use in heavy dirt applications, commonly used in agriculture equipment.	UA STATES	UB guinns	UC	
"VA"	Grease retention seals with variations depending on the application or installation conditions.	VA Managara	VA2 VA3	VA4 V	A5 VA6
"sq"	For use where radial space is limited and can be supplied with a split for ease of installation.		SQ O	So	
"sqs"	Same as the SQ type, with an addition of a spring inset for added rigidity.	S	QS O	SC	IS1

TCM Type	Design Characteristics	Seal Style			
"E"	The metal case reinforcement of the lip flex section makes this type suitable for low to medium pressure applications depending on the shaft speed and runout.  Pressure rating, 10 - 30 psi.	SEA	SEB	SEC	SEM
		TEA	TEB	TEC	TEM
"N1"	The shorter flex section makes this type suitable for lower pressure applications depending on the shaft speed and runout.  Pressure rating, 30 - 50 psi.	SCN1	TCN1	SGN1	TGN1
"N2"	The shorter flex section makes this type suitable for medium pressure applications depending on the shaft speed and runout.  Pressure rating, 50 - 90 psi.	SCN2	TCN2	SGN2	TGN2
"N"	The shortest flex section of the N type series makes it suitable for higher-pressure applications depending on the shaft speed and runout.  Pressure rating, 90+ psi.	SC	TCN	TDN	CNB
"TH" "G1"	TH – For heavy-duty dirt exclusion, and OD sealing ability in the housing, is required. G1- "G" type OD, and a lip profile for limited radial space applications.	TCH	TBH	VG1	KG1
"2/4"	Type 2 – used when a secondary dust lip is needed  Type 4 – used for linear applications such as motorcycle forks.	TC2	TB2	TC4	TM4
"6/9"	Type 6 – used for added dust or fine contaminate protection.  Type 9 – has the ability to act as a rotary shaft and an axial face seal.	TC6	TB6	TC9	TB9

TCM Type	Design Characteristics	Seal Style				
		OSA	OTA	OVA	OKA	
	External Seals  This external lip type performs and has the same design characteristics as the standard radial lip seals, but these are designed for a press fit on the shaft and to seal in a housing.	OSB	OTB	OVB	OKB	
"O"		osc	ОТС	ovc	OKC	
		OSM	OTM	OVM	OKM	
		OUA TUT	OUB	OUC	OUM	
"VA" "VS" "AFS" "AFX"	VA, VS – designed to be fixed on the shaft sealing axially against a perpendicular counter face. AFS, AFX – Performs the same as the VA, VS with an additional metal face added for protection.	VA	vs	AFS	AFX	
Piston Seals	Designed for reciprocating ram type applications	PSC	PSV	PDC	PSV	
"VS" "EC" "BS"	Valve Stem – Designed for valve guides End Cap – Designed for static applications to act as a plug or barrier. Bonded Seal – Designed as a addition to threaded fasteners	VSC2	VSC4	EC	BS	

TCM Type	Design Characteristics	Seal Style				
	AP Product Line	AJ	AO	AP	APY	
"AP"	This patented AP series seal is designed for heavy dirt exclusion. With a press fit on the shaft and also in the housing makes this series easily replaceable without damage to the shaft of housing.	AP1	AP3	AP4	AP5	
;		AP6	AP7	AP8	AP7Y	
		SC-PL	TC-PL	VC-PL	KC-PL	
"PL"	Teflon** Lined Seals  Designed for low friction, high	SF-PL	TF-PL	VF-PL	KF-PL	
	speed applications, or when the reductions of under lip running temperatures are required.	SB-PL	TB-PL	VB-PL	KB-PL	
		SA-PL	TA-PL	VA-PL	KA-PL	
"PA"	Teflon* Seals  Designed for dry running, low friction applications, also can handle certain pressure applications.	PA1	PA3	PA4	PA6	
"ST"	Oil Bath Seals  Designed to operate on trailer and truck axles.	ST	ST2	ST5	ST34	