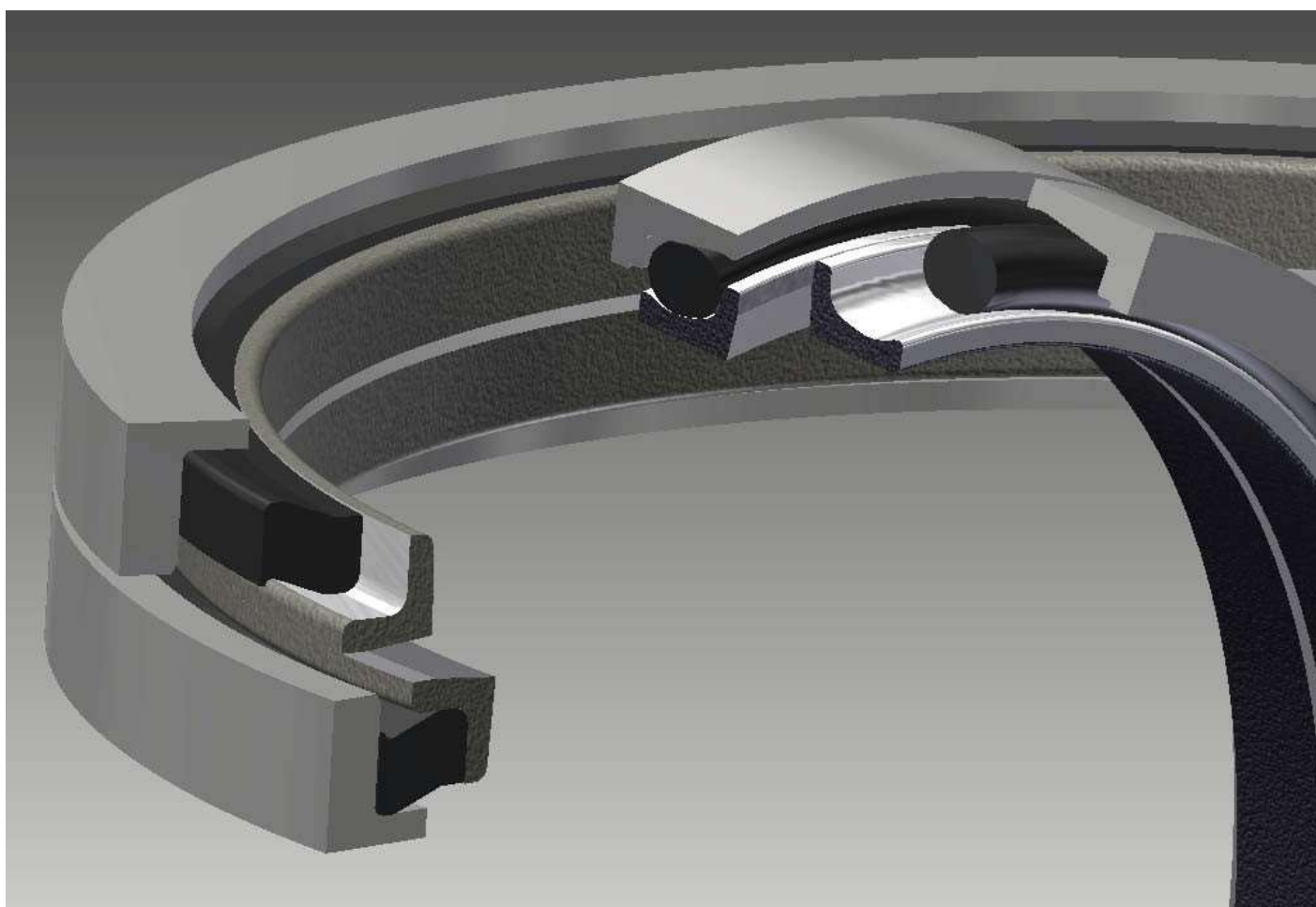
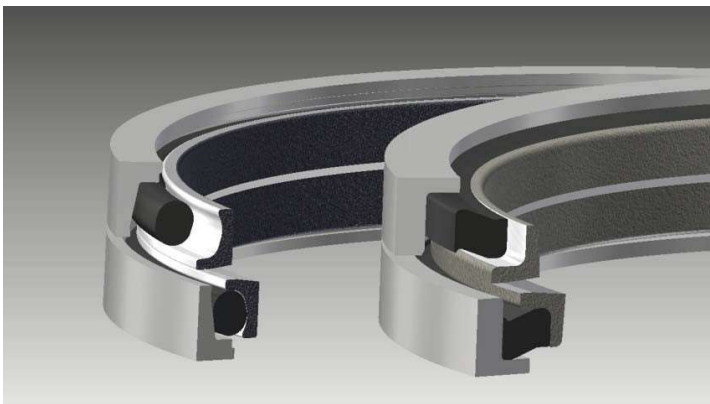


MECHANICAL FACE SEALS



Why choose Yimai?

Engineering	solutions
Application	options
Quality	assurance
Material	proficiency
Customer	service
International	support



Mechanical Face Seals

Mechanical face seals are designed and developed to provide maximum protection for equipment working in the most severe and harsh environments from earth, aggregate, minerals, and water.

Engineering solutions are focused on application options and sealing technology for machinery and equipment. Quality casted material provides long service life with low maintenance for mining machinery, construction equipment, agricultural machinery and many other applications.

The customer is our focus. Advanced cast material, quality assurance and continuous technical development guarantees long service life and customer productivity.



Requirements

SPEEDS

Mechanical face seals can run at peripheral speeds of up to 10m/sec. It is necessary to use oil lubrication at speeds in excess of 3m/sec. Below this speed, grease can be used. Oil is always preferable.

LUBRICATION

A constant supply of lubrication must be supplied to the faces of the seals in order for them to function properly. This lubrication reduces friction energy, allowing for free rotation and acts as a coolant for the entire seal and housing area.

PRESSURE LIMITATION

Mechanical face seals can withstand a positive pressure of up to 3 bar (42.5psi) dynamic and 6 bar (85psi) static.

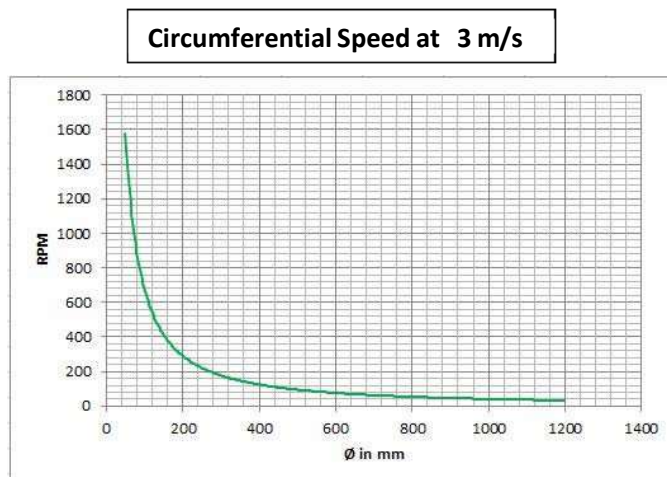
ADJUSTMENT FORCES

Ring design must offer resistance to internal operating pressures and the ability to achieve higher face loads. A balanced loading of the rings results in a proper sealing system and maximum seal life.

Technical Data

Pressure Velocity

Mechanical Face Seal performance can be described by its Pressure-Velocity or load speed rating. The face load required to keep the metal seal rings in contact is related the allowable speed, as describe in the following chart.



There are multiple factors that influence this relationship:

- seal ring material
- seal ring diameter
- operating temperature
- lubricant viscosity
- differential pressure across the load rings
- action of centrifugal force in the load ring

Application Variables

The selection of the proper face seal is contingent on a thorough application review. Differences in operating conditions have a significant impact on the optimum mechanical face seal suited for the customer's application.

Variable	Design Component
Speed	Metal Seal Ring Material
Internal/External Pressure	Metal Seal Ring Material
External Operating Environment	Metal Seal Ring and Elastomer Load Ring
Temperature	Elastomer Load Ring Material
Available Space	Metal Face Seal Type
End Play	Metal Seal Type



Lubrication Requirements

Due to the metal dynamic sealing surfaces, lubricant is always required on the inside diameter of the seals. Oil lubricant should be used for all mechanical face seals. Oil level should be maintained at 50% to 66% of the seal diameter. Levels exceeding 85% will not allow for adequate thermal expansion. Specially recommended is transmission oil SAE 80W90. This oil will accommodate working temperatures -20 degrees C (-4 degrees F) to +40 degrees C (104 degrees F). Contact engineering for temperatures above or below the selected range.

Maximum care should be taken to insure seal housing are clean at assembly, free from scale, dirt and other loose foreign material. Assembly cleanliness levels of 500 mg mass per square meter of surface area and a maximum particle size of 1.0 mm (0.040 inches) should be maintained.

Lubrication Viscosities for Ambient (Outside)		
Temperature Ranges		
Oil Viscosity	° C min/max	° F min/max
SAE 10W	-30/0	-22/+32
SAE 30W	-20/+25	-4/+77
SAE 40W*	-10/+40	+14/+104
SAE 50W	0/+50	+32/+122
SAE 80W90	-20/+40	-4/+104
SAE 85W140	-10/+50	+14/+122

Comparison of DO and DF Energizers

The following are some of the considerations made when designing mechanical face seals into your application.

DO

- Requires less room radially in application
- Very stable in housing prior to final assembly
- Exceptional end play capability

DF

- Requires less room axially in application
- Lower tooling cost
- Square bore housing cavity design
- At assembly no tool or lubricant required
- Bonding of load ring possible



Materials

Seal Rings

The two main requirements that need to be achieved by seal ring material are the handling of wear and corrosion. Our material has been developed for extreme operating conditions in which construction, mining and mill equipment experience every day. The material utilized is a hi-alloy, corrosion resistant casting. The casting material has proven in extreme environments to be the industry standard. Quality checks during production assure consistent metallurgy and hardness. The casting is machined, ground and lapped guaranteeing consistent product every shipment.

Type	Marenite A	Marenite B
Material	Hi-Alloy	Bearing Steel
Process	Casting	Forging
Wear / Life	High	Medium / High
Corrosion Resistance	High	Low / Medium
Scoring Resistance	High	Medium / High

Materials

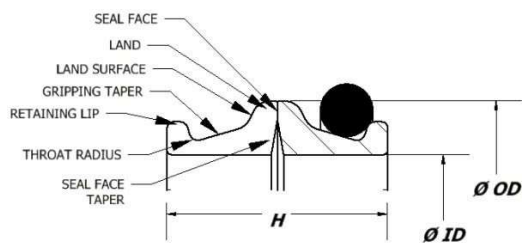
Energizers

Energizers provide the seal rings with permanent and consistent contact pressure with the sealing system. O-rings and other energizer types require high thermal resistance with a low compression set. The particular application dictates the specific elastomer material required. There is a wide variety of material compound options available.

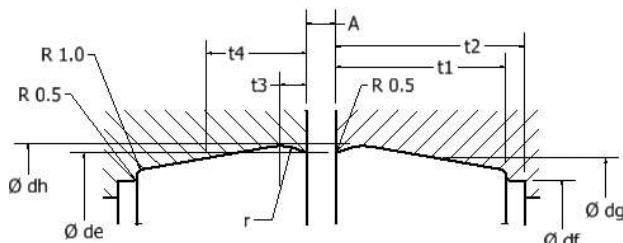
Description	NBR	HNBR	VMQ
Hardness	60-65 Shore	60-65 Shore	60-65 Shore
Tensile Strength	> 12	> 14	> 6
Elongation of Break	300 min	350 min	350 min
Temperature Range	-30/100°C	-26/150°C	-55/200°C
	-22/212°F	-15/302°F	-67/392°F



DO Installation Recommendations

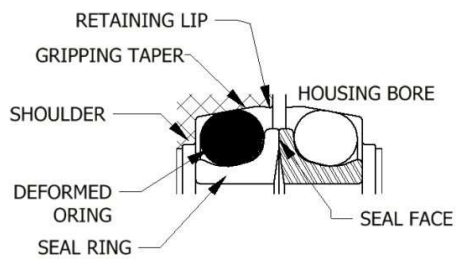


Seal Rings with O-ring

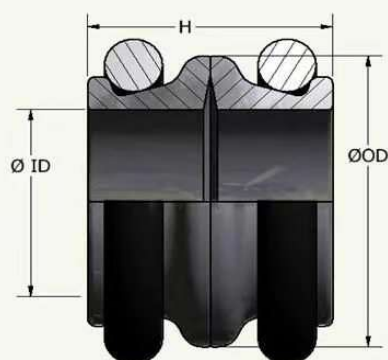


Housing Bore

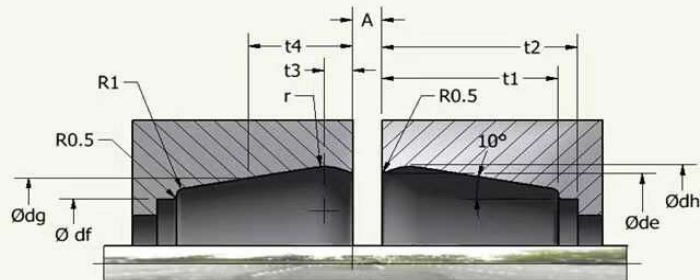
Label	Description of Dimensions
Ø OD	Seal Ring Outer Ø
Ø ID	Seal Ring Inner Ø
H	Seal Height
dh	Installation Ø
de	Retaining Lip Ø
dg	Functional Ø
df	Shoulder Ø
t1	Shoulder Depth
t2	Complete Depth
t3	Radius Location
t4	Functional Ø Depth
A	Clearance Distance
r	Throat Radius



Installed Condition

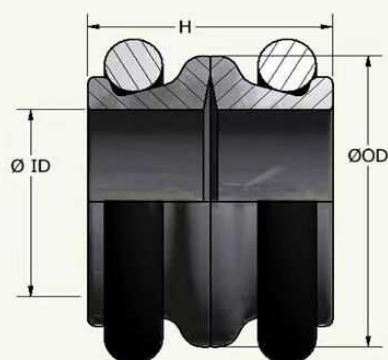


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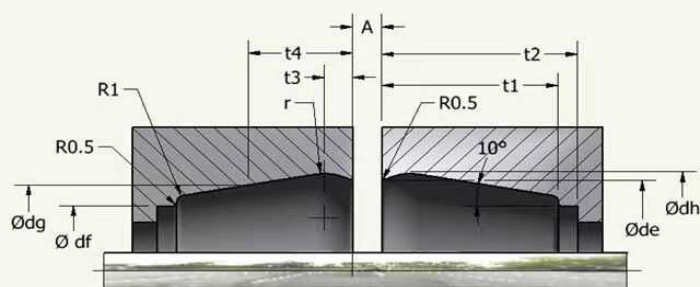


HOUSING BORE SPECIFICATIONS

Part#	Alternative Part #	ID	OD	H	A	dh*	de*	df*	dg*	t1	t2 min	t3	t4	r	Tol. For *
YM0220		22.0	35.0	20.0	3.0	37.7	37.0	29.0	36.5	9.0	10.5	1.8	5.5	2.0	0.10
YM0250		25.0	38.0	20.0	3.0	40.7	40.0	34.0	39.5	9.0	10.5	1.8	5.5	2.0	0.10
YM0305		30.5	42.5	17.6	3.0	44.3	44.0	39.5	43.7	7.3	8.8	1.1	2.8	2.0	0.10
YM0340		34.0	45.0	14.0	1.5	47.0	46.5	42.0	46.3	6.5	8.0	1.0	3.0	1.0	0.10
YM0380		38.0	51.0	20.0	3.0	53.7	53.0	46.0	52.5	9.0	11.0	1.8	5.5	2.0	0.10
YM0380A		38.0	51.0	20.0	3.0	53.7	53.0	46.0		9.0	11.0	1.6		2	
YM0430		43.0	58.0	24.0	3.0	62.0	61.3	51.0		10.5	12.5	2		2	
YM0435		43.5	58.0	24.0	3.0	61.6	61.0	52.0	60.1	11.0	13.5	2.8	7.5	5.0	0.10
YM0450		45.0	58.0	21.0	3.0	61.6	61.0	53.4	60.5	10.0	12.0	1.8	5.0	2.5	0.10
YM0450A	YM-021	45.0	58.0	21.0	3.0	61.6	60.8	53.4	59.7	10.0	12.0	1.8	7.5	2.5	0.10
YM0450C		45.0	59.0	26.8	3.0	62.3	61.5	53.0	60.4	13.5	15.5	2.7	7.5	2.8	0.10
YM0460A	YM-01	46.0	59.0	20.0	3.0	62.5	61.8	56.0	61.4	8.5	10.5	1.8	5	2	0.10
YM0460B		46.0	60.0	24.0	3.0	64.0	63.0	54.0	62.5	11.0	13.5	2.8	7.5	5.0	0.10
YM0480		48.0	58.0	14.4	3.0	59.9	59.4	55.0	59.2	6.3	8.0	1.5	3.0	1.7	0.10
YM0480A		48.0	62.0	25.0	3.0	68.0	67.4	58.0	66.3	12.0	14.0	2.0	7.5	3.0	0.10
YM0480B		48.0	62.0	25.0	3.0	68.0	67.2	58.0		12.0	14.0	2		3	
YM0480C	YM-019	48.0	62.2	25.0	3.0	68.0	67.2	58.0	66.2	12.0	14.0	2	7.5	3	0.10
YM0485		48.5	62.0	18.0	3.0	64.0	63.5	59.0	63.4	7.3	8.8	1.1	2.8	2.0	0.10
YM0510		51.0	65.6	26.8	3.0	68.0	67.2	62.0	66.4	13.5	15.5	2.7	7.5	2.8	0.10
YM0540		54.0	68.0	24.0	3.0	72.0	71.0	60.0	70.5	11.0	13.5	2.8	7.5	5.0	0.10
YM0550		55.0	67.0	18.0	3.0	69.1	68.6	64.0	68.5	7.3	8.8	1.1	2.8	2.0	0.10
YM0555A	YM-32	55.5	70.0	22.0	3.0	73.8	73.1	65.5	72.7	10.0	11.5	2.4	6	5	0.10
YM0555B		55.5	70.0	22.0	3.0	73.8	73.1	55.5		10.0	11.5	2.4		5	
YM0560		56.0	70.0	25.0	3.0	76.0	75.2	66.0	74.3	12.5	14.5	2.0	7.5	3.0	0.10
YM0560A		56.0	70.0	25.0	3.0	76.0	75.2	66.0		12.0	14.0	2		3	
YM0575		57.5	74.0	26.0	3.0	78.0	77.0	66.0	76.0	13.0	15.0	2.0	8.0	3.0	0.10
YM0580		58.0	74.0	27.0	3.0	79.4	78.6	67.0		13.5	15.5	2		3	
YM0580A		58.0	75.0	27.0	3.0	79.4	78.6	67.0	77.4	13.5	15.5	2.0	8.0	3.0	0.10
YM0580B		58.0	77.5	36.0	1.5	82.2	81.2	70.0	80.3	18.0	20.5	3.1	9.0	6.0	0.10

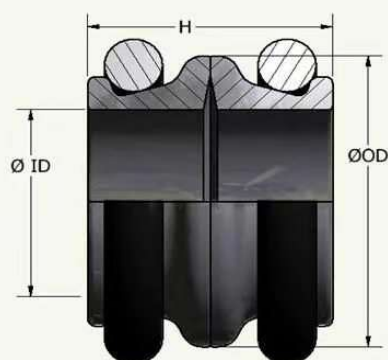


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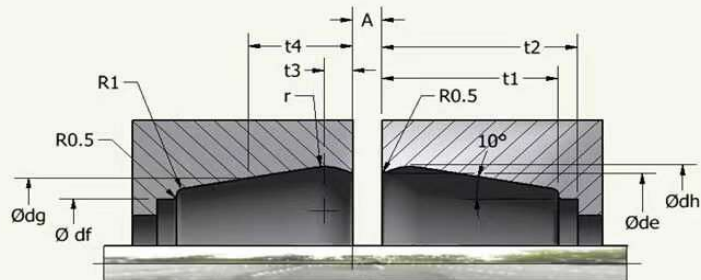


HOUSING BORE SPECIFICATIONS

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YM0560		60.0	74.0	20.6	3.0	78.4	77.4	70.0	77.4	9.0	11.0	1.6	5.0	2.5	0.10
YM0560A		60.0	74.0	20.6	3.0	78.4	77.4	70.0		9.0	11.0	1.9		2.5	
YM0602		60.2	73.0	20.0	3.0	76.5	75.8	69.0	75.4	8.5	10.5	1.5	5.0	2.0	0.10
YM0602A	YM-57	60.2	73.0	20.0	3.0	76.5	75.8	69.0	75.4	8.5	10.5	1.8	5	2	0.10
YM0610		61.0	73.0	17.6	2.0	75.8	75.5	68.5		8.0	9.5	1.4		1.5	
YM0610A		61.0	83.0	30.0	3.0	85.2	84.2	75.0	83.7	14.5	17.0	2.8	7.5	5.0	0.15
YM0615		61.5	73.0	18.0	3.0	75.8	75.3	68.0	75.2	7.5	9.5	1.1	2.8	2.0	0.10
YM0630A	YM-53	63.0	80.5	26.0	3.0	84.0	83.2	72.0	82.9	11.5	13.0	2.5	6	5	0.10
YM0635		63.5	82.5	31.8	3.0	86.8	86.0	74.5	85.3	14.5	17.5	2.8	7.5	5.0	0.10
YM0635A		63.5	82.5	31.8	3.0	86.8	85.9	74.0		15.0	17.0	3		2.5	
YM0640		64.0	78.0	25.0	3.0	84.6	84.0	74.0	82.9	12.5	14.5	2.0	7.5	3.0	0.10
YM0640A	YM-020	64.0	78.0	25.0	3.0	84.6	83.8	74.0	82.4	12.5	14.5	2	7.5	3	0.10
YM0640B		64.0	78.0	25.0	3.0	84.6	83.6	74.0		12.5	14.5	2		3	
YM0660		66.0	85.0	26.0	3.0	90.5	89.5	77.0	88.5	13.0	15.0	2.0	8.0	3.0	0.10
YM0660A		66.0	85.0	28.0	3.0	90.0	89.2	78.0		14.0	16.0	2		3	
YM0660B		66.0	86.0	28.0	3.0	90.0	89.2	78.0	88.3	13.5	15.5	2.0	7.5	3.0	0.10
YM0670		67.0	80.0	20.0	3.0	83.4	82.7	76.8	82.3	8.5	10.5	1.8	5.0	2.0	0.10
YM0675A	YM-03	67.5	86.5	31.8	3.0	91.0	90.0	78.0	89.5	14.5	17.0	2.8	7.5	5	0.15
YM0685		68.5	89.0	24.0	3.0	92.5	91.5	83.0	91.0	11.0	13.5	2.8	7.5	5.0	0.10
YM0690		69.0	84.0	24.0	3.0	89.6	88.6	78.0	88.1	11.0	13.5	2.8	7.5	5.0	0.10
YM0690A		69.0	84.0	24.0	3.0	89.6	88.6	78.5		11.0	13.0	1.9		3	
YM0700		70.0	84.0	20.0	3.0	86.5	85.7	55.0	85.4	9.0	11.0	1.8	5.0	2.0	0.10
YM0700A		70.0	87.0	21.0	3.0	91.8	90.8	84.0	90.6	9.2	10.0	2.3	6.0	3.0	0.10
YM0700B		70.0	90.0	28.0	3.0	95.0	94.0	84.0	93.3	13.5	15.5	2.0	7.5	3.0	0.10
YM0710		71.0	84.0	20.0	3.0	87.4	86.0	80.8	86.3	8.5	10.5	1.8	5.0	2.0	0.10
YM0710A		71.0	90.0	29.0	3.0	95.5	94.7	84.0		13.5	15.5	2		3	
YM0725		72.5	92.0	36.0	3.0	96.5	95.5	85.0	94.6	18.0	20.5	3.1	9.0	6.0	0.10
YM0730		73.0	92.0	31.8	3.0	96.4	95.4	84.0	94.9	15.0	17.0	2.8	7.5	5.0	0.10
YM0730A		73.0	92.0	31.8	3.0	96.2	95.4	84.0		15.0	17.0	3		2.5	

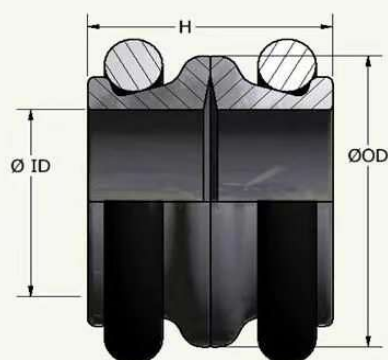


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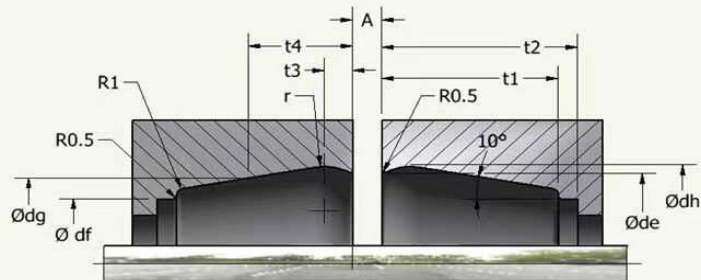


HOUSING BORE SPECIFICATIONS

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YM0740		74.0	86.0	22.0	3.0	91.0	90.0	81.0	89.7	10.0	11.5	2.0	6.0	4.0	0.10
YM0740A		74.0	86.6	22.0	3.0	91.4	90.7	80.0		9.5	11.5	2		3	
YM0746		74.6	93.0	29.0	3.0	100.7	99.9	84.0	99.2	15.0	17.0	2.8	7.5	5.0	0.10
YM0750		75.0	94.5	32.0	3.0	98.0	97.0	86.0	96.5	14.5	17.0	2.8	7.5	5.0	0.15
YM0760		76.0	94.0	29.0	3.0	101.4	100.5	88.0	99.7	14.5	16.5	2.0	7.5	5.0	0.10
YM0775		77.5	87.5	14.0	1.0	90.7	90.2	85.5	90.0	7.0	8.0	1.5	3.5	1.5	0.10
YM0790		79.0	100.0	30.0	3.0	105.2	104.2	92.0	103.7	14.5	17.0	2.8	7.5	4.0	0.15
YM0790A	YM-003	79.0	100.0	30.0	3.0	105.2	104.2	92.0	103.5	15.0	17.0	2.5	7.5	3	0.20
YM0795A	YM-45	79.5	92.5	20.0	3.0	96.0	95.3	88.0	94.9	8.5	10.5	1.8	5	2	0.10
YM0780		80.0	100.0	29.0	3.0	105.0	104.0	92.0	103.3	14.5	16.5	2.0	7.5	5.0	0.15
YM0780A	YM-016	80.0	100.0	29.0	3.0	104.0	103.2	92.0	102.2	14.5	16.5	2	7.5	3	0.10
YM0805		80.5	99.5	29.0	2.0	105.0	104.2	92.0		14.5	16.5	2		3	
YM0810		81.0	98.0	28.0	3.0	102.3	101.3	91.0	100.8	12.5	14.5	2.8	7.5	5.0	0.10
YM0820		82.0	98.0	22.0	3.0	102.3	101.3	91.0		9.0	11.0	2.8		5	
YM0825		82.5	102.0	36.0	3.0	106.3	105.3	95.0	104.4	18.0	20.5	3.1	9.0	6.0	0.15
YM0830		83.0	102.0	28.0	3.0	105.4	104.5	94.0	103.9	12.5	15.0	2.8	7.5	5.0	0.15
YM0830A	YM-07	83.0	102.0	28.0	3.0	105.5	104.5	94.0	104.0	12.5	15.0	2.8	7.5	5	0.10
YM0845		84.5	104.5	32.0	3.0	109.0	108.0	99.0	107.5	14.5	17.0	2.8	7.5	5.0	0.15
YM0880		88.0	108.0	24.0	3.0	111.5	110.5	102.0	110.0	11.0	13.5	2.8	7.5	5.0	0.10
YM0890		89.0	108.0	29.0	3.0	112.0	111.0	100.0	110.3	14.5	16.5	2.0	7.5	5.0	0.15
YM0900		90.0	105.0	26.0	3.0	107.3	106.3	97.0	105.3	13.0	15.0	2.0	8.0	2.5	0.10
YM0905		90.5	109.0	32.0	3.0	114.0	113.0	101.5	112.5	14.5	17.5	2.8	7.5	5.0	0.15
YM0905A		90.5	109.0	32.0	3.0	113.6	112.9	101.0		15.0	17.0	3		2.5	
YM0920		92.0	109.0	22.0	3.0	113.8	112.8	104.0	112.5	10.0	11.5	2.0	6.0	4.0	0.10
YM0920A		92.0	109.0	22.0	3.0	113.8	113.0	105.0		9.5	11.5	1.8		2.5	
YM0940		94.0	106.5	22.0	3.0	111.6	110.8	102.0		9.5	11.5	2		3	
YM0940A		94.0	107.0	22.0	3.0	112.0	111.0	102.0	110.7	10.0	11.5	2.0	6.0	4.0	0.10
YM0950		95.0	111.0	24.0	3.0	115.6	114.8	108.0	114.0	11.0	13.0	1.8	6.5	2.0	0.10
YM0950A		95.0	114.0	32.0	3.0	120.0	119.0	106.0	118.5	14.5	17.0	2.8	7.5	5.0	0.15

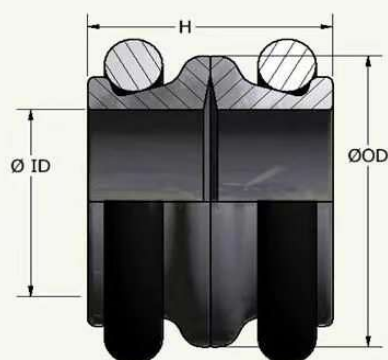


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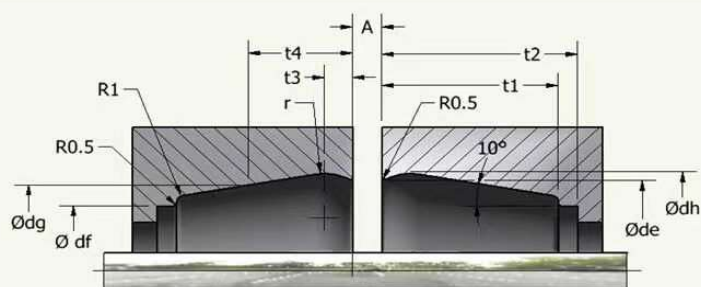


HOUSING BORE SPECIFICATIONS

Part#	Alternative Part #	ID	OD	H	A	dh*	de*	df*	dg*	t1	t2 min	t3	t4	r	Tol. For *
YM0950B		95.0	114.0	31.0	3.0	120.0	119.2	107.0		15.0	17.0	2.5		3	
YM0980		98.0	119.0	29.6	3.0	124.2	123.2	111.0	122.7	14.5	17.0	2.8	7.5	5.0	0.15
YM0990		99.0	120.0	28.0	3.0	123.5	122.5	112.0	122.0	12.5	14.5	2.8	7.5	5.0	0.10
YM1000		100.0	119.0	32.0	3.0	123.5	122.5	111.0	122.0	14.5	17.0	2.8	7.5	5.0	0.15
YM1000A		100.0	119.0	31.8	3.0	123.2	122.4	111.0		14.5	16.5	2.5		2.5	
YM1000B		100.0	120.0	29.4	3.0	125.0	124.2	111.0		14.0	16.0	2.9		3	
YM1010		101.0	120.0	30.0	3.0	125.0	124.0	111.0	123.5	14.5	17.0	2.8	7.5	5.0	0.15
YM1020		102.0	118.0	27.0	3.0	124.0	123.0	112.0	122.5	12.0	14.5	2.8	7.5	5.0	0.10
YM1020A		102.0	122.0	33.0	3.0	127.2	126.2	114.0	125.3	16.5	18.5	3.1	9.0	3.0	0.15
YM1020B		102.0	122.0	32.0	3.0	127.2	126.2	115.0		15.5	17.5	2.5		3	
YM1030		103.0	117.0	20.0	3.0	119.8	119.0	112.5	118.7	9.0	11.0	1.8	5.0	2.0	0.10
YM1040		104.0	116.7	21.2	3.0	121.0	120.2	107.0		9.5	11.5	2		3	
YM1040A		104.0	117.0	22.0	3.0	122.0	121.0	112.5	120.7	10.0	11.5	2.0	6.0	4.0	0.10
YM1040B		104.0	121.0	22.0	3.0	125.5	125.1	117.5		9.5	11.5	2		3	
YM1040C		104.0	122.0	22.0	3.0	125.8	124.8	117.0	124.4	10.0	11.5	2.0	6.0	4.0	0.10
YM1040D		104.0	125.0	28.0	3.0	128.5	127.5	117.0	127.0	12.5	14.0	2.8	7.5	5.0	0.10
YM1080		108.0	125.0	24.0	3.0	130.4	129.4	119.5	128.9	11.0	13.5	2.8	7.5	5.0	0.10
YM1090		109.0	127.0	32.0	3.0	133.0	132.0	121.0		15.0	17.0	2.5		3	
YM1090A		109.0	132.0	32.0	3.0	136.6	135.5	125.0	135.1	14.5	17.0	2.8	7.5	5.0	0.15
YM1090B		109.0	132.0	32.0	3.0	136.6	135.6	124.0		15.5	17.5	2.5		3	
YM1095		109.5	127.0	32.0	3.0	132.6	131.3	121.0	131.1	14.5	17.0	2.8	7.5	5.0	0.10
YM1100		110.0	128.0	32.0	3.0	133.0	132.0	121.0	131.5	14.5	17.0	2.8	7.5	5.0	0.10
YM1100A	YM-017	110.0	128.0	32.0	3.0	133.0	132.0	121.0	131.0	15.0	17.0	2.5	7.5	3	0.10
YM1120		112.0	131.0	32.0	3.0	135.5	134.5	124.0	134.0	14.5	17.0	2.8	7.5	5.0	0.10
YM1145		114.5	129.0	21.0	3.0	134.1	133.1	126.0	132.9	9.2	10.0	2.3	6.0	3.0	0.15
YM1150		115.0	137.0	31.0	3.0	141.8	140.8	130.0	140.3	14.5	16.5	2.8	7.5	3.0	0.15
YM1150A		115.0	137.0	31.0	3.0	141.8	140.8	130.0		14.5	16.5	2.5		3	
YM1170		117.0	140.0	29.0	3.0	142.5	141.5	132.0	141.0	13.0	14.0	2.8	7.5	5.0	0.15
YM1180		118.0	138.0	32.0	3.0	142.5	141.5	132.0	141.0	14.5	17.0	2.8	7.5	5.0	0.10

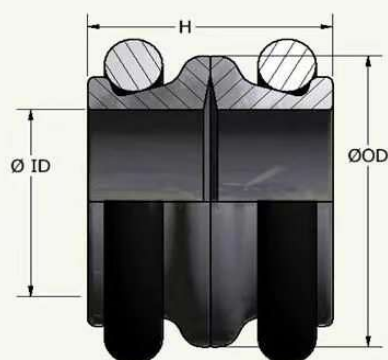


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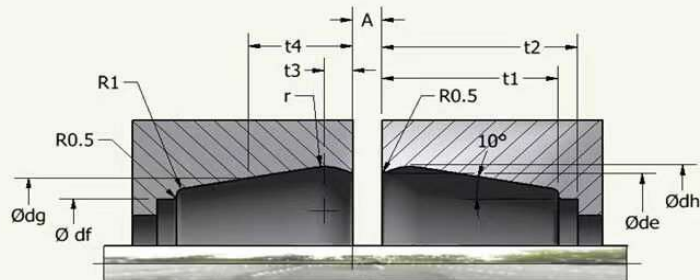


HOUSING BORE SPECIFICATIONS

Part#	Alternative Part #	ID	OD	H	A	dh*	de*	df*	dg*	t1	t2 min	t3	t4	r	Tol. For *
YM1200		120.0	139.0	31.8	3.0	143.8	142.8	132.0	142.3	14.5	17.0	2.8	7.5	5.0	0.15
YM1200A		120.0	142.0	38.0	4.0	149.0	148.0	133.0	147.1	17.0	19.0	3.1	9.0	6.5	0.15
YM1200B	YM-022	120.0	142.0	38.0	4.0	149.0	148.0	133.0	146.8	17.0	19.0	2.5	9	3	0.10
YM1240		124.0	141.0	22.0	3.0	146.4	145.3	136.0	145.1	10.0	11.5	2.0	6.0	4.0	0.10
YM1240A		124.0	141.0	22.0	3.0	145.8	145.0	136.0		9.5	11.5	2		3	
YM1250A	YM-11	125.0	144.0	31.8	3.0	148.5	147.5	136.0	147.0	14.5	17.0	2.8	7.5	5	0.15
YM1270		127.0	140.7	25.0	3.0	144.0	143.2	135.0	142.4	12.7	15.2	2.7	7.5	2.8	0.10
YM1270A		127.0	141.0	29.0	3.0	148.2	147.2	135.0	146.7	13.2	15.5	2.8	7.5	5.0	0.15
YM1270B		127.0	146.0	31.8	3.0	150.2	149.2	138.0	148.7	14.5	17.5	2.8	7.5	5.0	0.15
YM1270C		127.0	146.0	31.8	4.0	150.2	149.4	138.0		14.0	16.0	2.5		2.5	
YM1300		130.0	150.0	32.0	3.0	156.0	155.0	144.6	154.5	14.5	17.0	2.8	7.5	5.0	0.15
YM1300A		130.0	152.0	38.4	3.0	159.0	158.0	142.0	157.1	18.0	20.5	3.1	9.0	6.5	0.20
YM1300B		130.0	152.0	38.0	3.0	159.0	158.0	144.0		18.5	20.5	2.5		3	
YM1355		135.5	154.5	28.0	3.0	158.3	157.3	146.5	156.8	12.5	14.0	2.8	7.5	5.0	0.15
YM1360		136.0	155.0	30.0	3.0	159.7	158.7	145.0	158.2	14.5	17.0	2.8	7.5	5.0	0.15
YM1370		137.0	153.0	30.0	3.0	161.7	160.7	143.0	160.2	14.5	17.0	2.8	7.5	5.0	0.15
YM1400		140.0	155.0	26.0	3.0	158.6	157.6	147.0	156.6	13.0	15.0	2.0	8.0	3.0	0.10
YM1420		142.0	160.0	33.0	3.0	166.0	165.0	152.0	164.1	16.5	18.5	3.1	9.0	3.0	0.20
YM1430		143.0	157.0	25.0	3.0	160.0	159.0	152.0	158.3	12.0	14.5	2.3	7.5	3.0	0.10
YM1430A		143.0	157.0	27.0	3.0	160.0	159.0	152.0	158.3	12.0	14.5	2.3	7.5	3.0	0.10
YM1430B		143.0	157.0	25.0	4.0	159.7	158.9	152.0		11.5	13.5	2.5		2.8	
YM1430C		143.0	160.0	27.0	3.0	164.0	163.0	154.0	162.5	12.0	14.5	2.8	7.5	5.0	0.10
YM1460		146.0	168.0	38.0	3.0	176.8	175.8	157.0	174.9	18.0	20.5	3.1	9.0	6.5	0.15
YM1460A		146.0	168.0	38.0	4.0	177.0	176.0	159.0		18.0	20.0	2.5		3	
YM1460B		146.0	172.0	38.0	3.0	177.0	176.0	159.0	175.1	18.0	20.5	3.1	9.0	6.5	0.15
YM1460C		146.0	175.0	38.0	3.0	180.5	179.5	168.0	178.3	17.5	20.5	3.1	10.0	6.5	0.20
YM1470		147.0	167.0	28.0	2.5	171.0	170.0	160.0	169.5	13.0	15.5	2.8	7.5	5.0	0.15
YM1495		149.5	171.0	32.0	3.0	175.6	174.6	164.0	174.1	15.0	17.0	2.8	7.5	3.0	0.15
YM1500		150.0	167.0	28.0	3.0	171.0	170.0	160.0	169.5	12.5	14.5	2.8	7.5	5.0	0.10

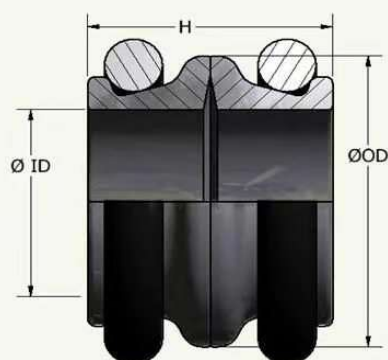


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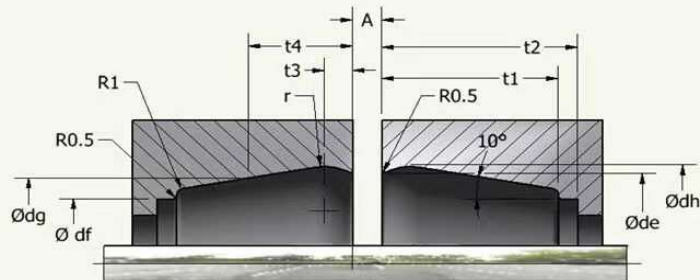


HOUSING BORE SPECIFICATIONS

Part#	Alternative Part #	ID	OD	H	A	dh*	de*	df*	dg*	t1	t2 min	t3	t4	r	Tol. For *
YM1500A		150.0	171.0	32.0	3.0	175.6	174.6	164.0	174.1	14.5	17.0	2.8	7.5	5.0	0.15
YM1500B		150.0	172.0	40.0	3.0	176.3	175.5	165.0	174.6	18.0	20.0	2.5	7.5	3.0	0.15
YM1500C		150.0	172.0	40.0	4.0	179.0	178.0	165.0	177.3	18.0	20.0	2.5	7.5	3.0	0.15
YM1500D		150.0	172.0	39.0	3.0	177.3	176.3	165.0	175.6	18.0	20.0	2.5	7.5	3.0	0.15
YM1500E	YM-023	150.0	172.0	40.0	3.0	179.0	178.0	165.0	177.3	18.0	20.0	2.5	7.5	3	0.10
YM1500F		150.0	172.0	40.0	4.0	179.0	178.0	165.0		18.0	20.0	2.5		3	
YM1530		153.0	171.5	28.0	3.0	176.3	175.3	164.5	174.8	12.5	14.5	2.8	7.5	5.0	0.10
YM1535		153.5	172.5	32.0	3.0	178.0	177.0	166.0	176.5	14.5	17.0	2.8	7.5	5.0	0.15
YM1540		154.0	168.0	27.0	3.0	171.0	170.0	163.0	169.3	12.0	14.5	2.3	7.5	3.0	0.10
YM1540A		154.0	168.0	25.0	4.0	171.0	170.2	164.0		11.5	13.5	2.5		2.8	
YM1540B		154.0	169.0	22.0	3.0	174.5	173.5	166.0	173.2	9.5	1.0	2.3	6.0	3.0	0.10
YM1540C		154.0	170.0	21.0	3.0	175.1	174.1	167.0	173.9	9.2	11.0	2.3	6.0	3.0	0.10
YM1540D		154.0	173.5	32.0	3.0	178.0	177.0	166.0	176.5	14.5	17.0	2.8	7.5	5.0	0.15
YM1540E		154.0	178.0	34.0	3.0	181.0	180.0	171.0	179.1	18.0	20.5	3.1	9.0	6.0	0.20
YM1540F	YM-168	154.0	180.0	38.0	3.0	185.0	184.0	167.0	183.1	18.0	20.5	3.1	9	6.5	0.20
YM1550		155.0	177.0	39.0	3.0	181.0	179.0	168.0	179.1	18.0	20.5	3.1	9.0	6.5	0.20
YM1600		160.0	180.0	32.0	3.0	186.3	185.0	174.0	184.8	14.5	17.0	2.8	7.5	5.0	0.15
YM1630		163.0	191.0	38.0	3.0	196.5	195.5	178.5	194.6	18.0	20.5	3.1	9.0	6.5	0.20
YM1630A		163.0	191.0	46.0	3.0	196.8	195.8	178.4	194.2	21.0	23.5	3.1	11.0	6.5	0.20
YM1630B		163.0	191.0	38.0	4.0	196.4	195.5	179.0		18.0	20.0	3.1		6.4	
YM1630C		163.0	191.5	38.0	3.0	197.7	197.0	178.4	196.1	18.0	20.5	3.1	9.0	6.5	0.20
YM1640A	YM-55	164.0	189.0	30.0	3.0	193.5	192.5	179.0	192.0	14.5	17.0	2.8	7.5	5	0.15
YM1650		165.0	181.0	27.0	3.0	185.0	184.0	176.5	183.3	12.0	14.5	2.3	7.5	3.0	0.10
YM1650A		165.0	183.0	28.0	3.0	188.0	187.0	176.0	186.5	12.5	14.5	2.8	7.5	5.0	0.10
YM1670		167.0	194.0	38.0	3.0	199.0	198.0	187.0	197.1	18.0	20.5	3.1	9.0	6.5	0.20
YM1713		171.3	185.3	20.0	3.0	188.0	187.3	180.0	186.8	9.0	11.0	1.8	5.5	2.0	0.10
YM1720		172.0	194.4	31.8	3.0	198.9	197.9	186.0	197.4	14.5	17.0	2.8	7.5	5.0	0.15
YM1720A	YM-124	172.0	194.4	31.8	3.0	198.9	197.9	186.0	197.4	14.5	16.5	2.8	7.5	5	0.15
YM1725		172.5	190.0	25.4	3.0	192.7	191.8	188.0	191.1	12.7	14.3	2.3	7.5	2.8	0.10

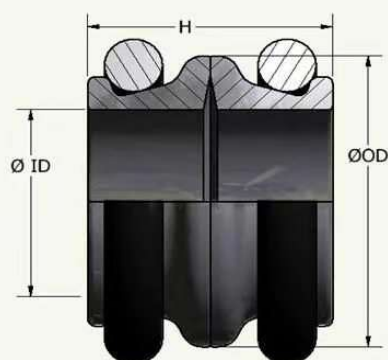


SEAL SET

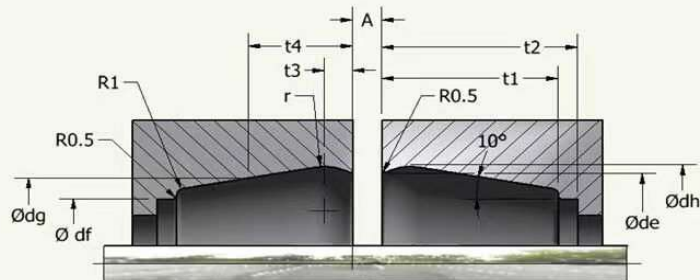


HOUSING BORE SPECIFICATIONS

Part#	Alternative Part #	ID	OD	H	A	dh*	de*	df*	dg*	t1	t2 min	t3	t4	r	Tol. For *
YM1740		174.0	190.0	25.4	3.0	192.7	191.8	188.0	191.1	12.7	14.3	2.3	7.5	2.8	0.10
YM1760A	YM-47	176.0	195.0	28.0	3.0	199.8	198.8	188.0	198.3	12.5	14.5	2.8	7.5	5	0.10
YM1770		177.0	260.0	30.0	3.0	204.5	203.5	191.0	203.0	14.5	17.0	2.8	7.5	5.0	0.15
YM1780		178.0	199.0	32.0	3.0	203.6	202.6	190.0	202.1	14.5	17.0	2.8	7.5	5.0	0.15
YM1780A		178.0	200.0	38.0	3.0	210.6	209.6	191.0	208.7	18.0	20.5	3.1	9.0	6.5	0.20
YM1780B	YM-150	178.0	205.0	38.0	4.0	210.6	209.6	192.0	209.0	19.0	21.0	3	8	4	0.10
YM1800		180.0	198.0	22.0	3.0	202.7	201.8	187.0	201.4	10.0	11.5	2.0	6.0	4.0	0.10
YM1820		182.0	210.5	38.0	3.0	215.5	214.5	197.5	213.6	18.0	20.5	3.1	9.0	6.5	0.20
YM1825		182.5	210.5	46.0	3.0	215.4	214.5	197.5	212.8	21.0	23.5	3.1	11.0	6.5	0.20
YM1860		186.0	203.0	25.4	3.0	205.7	204.8	192.0	204.1	12.7	14.3	2.3	7.5	2.8	0.10
YM1900		190.0	216.0	44.0	3.0	224.0	223.0	206.5	221.8	12.7	22.5	3.1	10.0	3.0	0.20
YM1910		191.0	210.0	28.0	3.0	214.0	213.0	203.0	212.5	12.5	14.5	2.8	7.5	5.0	0.10
YM1920A	YM-94	192.0	209.0	30.0	3.0	213.5	212.5	200.0	212.0	14.5	17.0	2.8	7.5	5	0.15
YM1920B		192.0	215.0	33.0	3.0	220.8	219.8	207.0	218.9	16.5	18.5	3.1	9.0	3.0	0.20
YM1920C		192.0	215.0	33.0	4.0	220.8	219.8	207.0		16.5	18.5	3		4	
YM1930		193.0	218.0	38.0	3.0	225.0	224.0	208.0	223.1	18.0	20.5	3.1	9.0	6.5	0.20
YM1950		195.0	216.5	31.8	3.0	221.0	220.0	207.0	219.5	14.5	17.0	2.8	7.5	5.0	0.15
YM2000A	YM-25	200.0	228.5	38.0	3.0	233.5	232.5	215.5	231.6	18.0	20.5	3.1	9	6.5	0.20
YM2010		201.0	222.3	26.5	3.0	224.9	224.1	217.9	223.7	14.5	14.2	2.2	6.0	2.5	0.10
YM2050A	YM-23	205.0	227.0	30.0	3.0	231.5	230.5	219.0	230.0	14.5	17.0	2.8	7.5	5	0.15
YM2087A	YM-81	208.7	222.8	26.0	3.0	225.4	224.4	217.0	224.1	11.5	13.5	2.2	6	2.5	0.10
YM2090		209.0	234.0	42.0	3.0	242.6	241.6	224.0	240.5	19.5	21.5	3.0	9.5	4.0	0.15
YM2100		210.0	240.0	40.0	3.0	246.4	245.4	228.0	244.5	18.0	20.5	3.1	9.0	6.5	0.20
YM2160A	YM-93	216.0	237.0	30.0	3.0	241.5	240.5	229.0	240.0	14.5	17.0	2.8	7.5	5	0.15
YM2170		217.0	240.0	36.0	3.0	244.0	243.0	228.0	242.1	18.0	20.5	3.1	9.0	6.0	0.20
YM2200		220.0	239.5	31.8	3.0	244.0	243.0	232.0	242.5	14.5	17.0	2.8	7.5	5.0	0.15
YM2200A		220.0	239.5	31.8	3.0	244.0	243.0	232.0		14.5	16.5	2.8		5	
YM2200B		220.0	241.4	25.0	3.0	244.7	244.0	233.9	243.3	11.0	13.5	2.2	6.5	4.0	0.10
YM2200C	YM-109	220.0	241.4	25.0	3.0	244.7	244.0	233.5	243.3	11.0	13.5	2.2	6.5	4	0.10

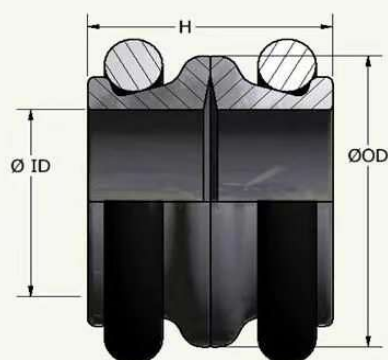


SEAL SET

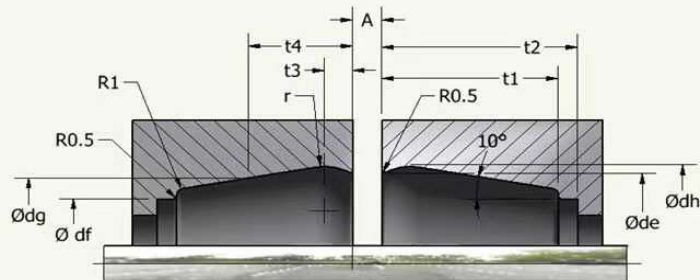


HOUSING BORE SPECIFICATIONS

Part#	Alternative Part #	ID	OD	H	A	dh*	de*	df*	dg*	t1	t2 min	t3	t4	r	Tol. For *
YM2200D		220.0	246.0	41.0	3.0	254.6	253.6	236.0	252.5	20.5	22.5	3.0	9.5	4.0	0.20
YM2220		222.0	246.0	36.0	3.0	251.6	250.6	236.5	249.7	18.0	20.5	3.1	9.0	6.0	0.20
YM2230		223.0	251.5	37.0	3.0	256.5	255.5	238.5	254.6	18.0	20.5	3.1	9.0	6.5	0.20
YM2235		223.5	252.0	46.0	3.0	257.0	255.9	238.9	254.4	21.0	23.5	3.1	11.0	6.5	0.20
YM2235A		223.5	252.0	38.0	2.0	256.6	255.7	238.0		18.0	20.0	3.1		6.4	
YM2250		225.0	253.0	38.0	3.0	258.0	257.0	241.0	256.1	18.0	20.5	3.1	9.0	6.5	0.20
YM2320		232.0	260.0	36.0	3.0	265.0	264.0	250.0	263.1	18.0	20.5	3.1	9.0	6.0	0.20
YM2350	YM-104	235.0	259.7	38.0	5.0	264.7	263.7	247.0	262.8	18.0	20.5	3.1	9	6.5	0.20
YM2380		238.0	261.0	32.0	3.0	265.5	264.5	254.0	264.0	14.5	17.0	2.8	7.5	5.0	0.15
YM2380A	YM-40	238.0	261.0	31.8	3.0	265.5	264.5	254.0	264.0	14.5	17.0	2.8	7.5	5	0.15
YM2390		239.0	268.0	40.0	3.0	274.2	273.2	257.0	272.3	18.0	20.5	3.1	9.0	6.5	0.20
YM2400A	YM-41	240.0	262.8	38.0	3.0	273.5	272.5	255.5	271.6	18.0	20.5	3.1	9	6.5	0.20
YM2400B		240.0	262.8	38.0	4.0	273.5	272.5	257.0		19.0	21.0	3		4	
YM2450		245.0	264.5	32.0	3.0	269.3	268.3	257.0	267.8	14.5	17.0	2.8	7.5	5.0	0.15
YM2500		250.0	270.0	30.0	3.0	274.7	273.7	262.0	273.2	14.5	17.0	2.8	7.5	5.0	0.20
YM2500A	YM-130	250.0	270.0	30.0	3.0	274.7	273.7	262.0	273.2	14.0	15.5	2.8	7.5	5	0.20
YM2500B		250.0	276.0	44.0	3.0	284.6	283.6	266.0	282.4	20.5	22.5	3.1	10.0	6.5	0.20
YM2500C		250.0	276.0	41.0	4.0	284.6	283.6	266.0		20.5	22.5	3		4	
YM2520		252.0	280.0	38.0	3.0	285.5	284.5	267.5	283.6	18.0	20.5	3.1	9.0	6.5	0.20
YM2520A	YM-62	252.0	280.5	38.0	3.0	285.5	284.5	267.5	283.6	18.0	20.5	3.1	9	6.5	0.20
YM2600		260.0	288.0	40.0	3.0	295.0	294.0	275.0	293.1	18.0	20.5	3.1	9.0	6.5	0.20
YM2620	YM-142	262.0	288.0	40.0	7.0	294.0	293.0	276.0	292.0	17.0	20.0	3.8	10	6	0.15
YM2650		265.0	292.8	46.0	3.0	298.0	297.0	280.0	296.1	21.0	23.5	3.1	11.0	6.5	0.20
YM2650A		265.0	293.0	38.0	3.0	298.0	297.0	280.0	296.1	18.0	20.5	3.1	9.0	6.5	0.20
YM2650B		265.0	293.0	38.0	4.0	298.0	297.0	280.0		19.0	21.0	3		6.4	
YM2720		272.0	300.0	40.0	3.0	306.0	305.0	286.0	304.1	18.0	20.5	3.1	9.0	6.5	0.20
YM2750		275.0	303.0	38.0	3.0	308.0	307.0	290.0	306.1	18.0	20.5	3.1	9.0	6.5	0.20
YM2750A		275.0	303.0	38.0		308.0	307.0	290.0		18.0	20.5	3.1		4	
YM2770		277.0	310.0	38.0	3.0	315.5	314.5	303.0	313.3	17.5	20.5	3.1	10.0	6.5	0.20

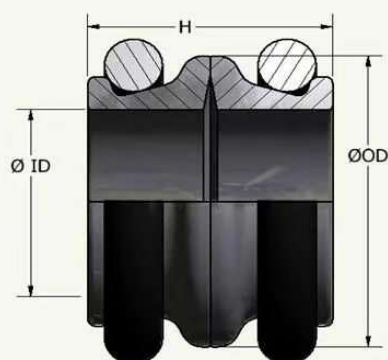


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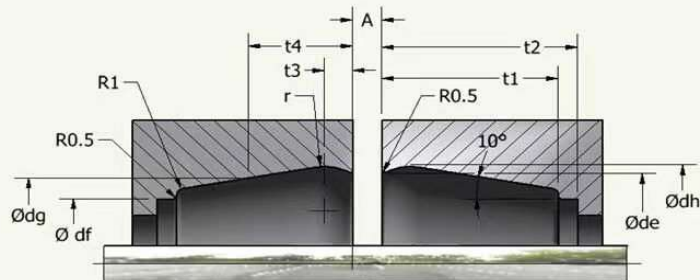


HOUSING BORE SPECIFICATIONS

Part#	Alternative Part #	ID	OD	H	A	dh*	de*	df*	dg*	t1	t2 min	t3	t4	r	Tol. For *
YM3000	YM-27	300.0	324.7	38.0	3.0	335.5	334.5	318.0	333.3	17.5	20.5	3.1	10	6.5	0.20
YM3000A		300.0	325.0	38.0	3.0	335.5	334.5	318.0	333.3	17.5	20.5	3.1	10.0	6.5	0.20
YM3000B		300.0	328.0	40.0	3.0	333.0	332.0	315.0	331.1	19.0	21.5	3.1	9.0	6.5	0.20
YM3000C	YM-042	300.0	328.0	38.0	4.0	333.0	332.0	315.0	330.8	19.5	22.0	3	9.5	4	0.20
YM3000D		300.0	328.0	39.0	4.0	333.0	332.0	315.0		19.5	22.0	3		4	
YM3090		309.0	337.0	40.0	3.0	341.0	340.0	325.0	339.1	19.0	21.5	3.1	9.0	6.5	0.20
YM3180		318.0	341.0	38.0	3.0	351.5	350.5	334.0	349.3	18.0	20.5	3.1	10.0	6.5	0.20
YM3180A	YM-28	318.0	341.0	38.0	3.0	351.5	350.5	334.0	349.3	17.5	20.5	3.1	10	6.5	0.20
YM3180B		318.0	341.0	38.0		351.6	350.7	335.0		19.0	20.5	3		6.4	
YM3180C		318.0	346.0	38.0	3.0	351.5	350.5	334.0	349.3	18.0	20.5	3.1	10.0	6.5	0.20
YM3185		318.5	346.5	38.0		351.6	350.6	335.0		19.0	21.5	3		6.4	
YM3190		319.0	346.0	45.0	3.0	351.5	350.5	334.0	349.3	21.5	23.5	3.1	10.0	6.5	0.20
YM3200		320.0	348.0	40.0	3.0	354.0	353.0	338.0	352.1	19.0	21.5	3.1	10.0	6.5	0.20
YM3260	YM-161	326.0	354.0	30.0	3.0	358.7	357.7	346.0	357.2	15.0	16.5	2.8	7.5	5	0.20
YM3395		339.5	368.0	40.0	3.0	374.8	373.8	358.0	372.9	19.0	21.5	3.1	10.0	6.5	0.20
YM3400		340.0	368.0	38.0	3.0	375.7	374.8	368.0		19.6	22.1	3.1		4	
YM3400A		340.0	370.0	40.4	3.0	375.2	374.2	358.0	373.0	19.0	21.5	3.1	10.0	6.5	0.20
YM3500A	YM-30	350.0	375.0	38.0	3.0	385.5	384.5	368.0	383.3	17.5	20.5	3.1	10	6.5	0.20
YM3500B		350.0	376.0	44.0	3.0	386.0	385.0	368.0	383.8	20.5	22.5	3.1	10.0	6.5	0.20
YM3560		356.0	381.0	38.0	3.0	388.5	387.5	370.0	386.3	17.5	20.5	3.1	10.0	6.5	0.20
YM3560A		365.0	394.0	38.0	3.0	400.0	399.0	381.0	398.0	17.5	20.5	3.0	9.5	6.5	0.25
YM3660		366.0	394.0	46.0	3.0	399.5	398.6	381.0	396.9	21.0	23.5	3.1	11.0	6.5	0.20
YM3660A	YM-60	366.0	394.4	38.0	3.0	399.5	398.6	381.0	397.4	17.5	20.5	3	9.5	6.5	0.20
YM3665		366.5	391.0	38.0	4.0	399.5	398.5	382.0		18.5	21.0	3		4	
YM3665A		366.5	394.5	38.0	4.0	399.5	398.6	382.0		18.5	21.0	3		6.4	
YM3700		370.0	398.0	38.0	3.0	403.5	402.6	385.0	401.4	17.5	20.5	3.0	9.5	6.5	0.25
YM3805		380.5	405.0	40.0	3.0	412.2	410.5	395.0	410.3	19.0	21.5	3.1	10.0	6.5	0.30
YM3810		381.0	405.0	40.8	3.0	415.0	414.0	393.0	412.8	19.0	21.5	3.1	10.0	6.5	0.20
YM3820	YM-143	382.0	405.0	40.0	6.0	412.0	411.0	395.0	401.4	17.0	22.0	3.8	9	6	0.15

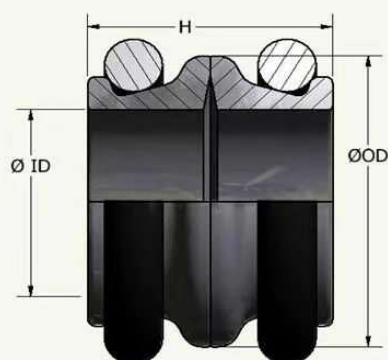


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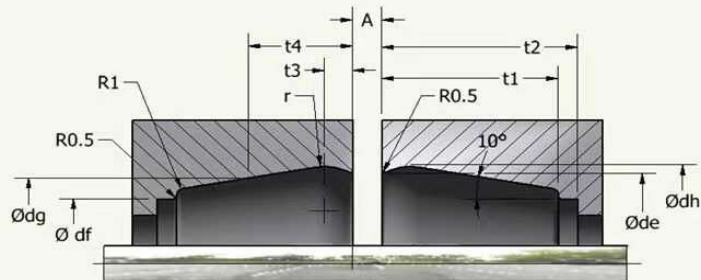


HOUSING BORE SPECIFICATIONS

Part#	Alternative Part #	ID	OD	H	A	dh*	de*	df*	dg*	t1	t2 min	t3	t4	r	Tol. For *
YM3820A		382.0	410.0	42.0	3.0	415.4	414.4	400.0	413.3	19.5	21.5	3.0	9.5	4.0	0.15
YM3870		387.0	415.0	38.0	3.0	419.5	418.6	402.0	417.4	17.5	20.5	3.0	9.5	6.5	0.25
YM3870A		387.0	415.0	38.0	3.0	419.5	418.5	400.0		18.0	20.5	3		4	
YM3880	YM-70	388.0	415.0	38.0	3.0	420.3	41904.0	402.0	418.2	17.5	20.5	3	9.5	6.5	0.25
YM3880A		388.0	416.2	38.0	3.0	421.6	420.7	402.0	419.5	17.5	20.5	3.0	9.5	6.5	0.25
YM4240		424.0	454.0	42.0	3.0	461.0	460.0	444.0	458.9	19.5	21.5	3.0	9.5	4.0	0.15
YM4285		428.5	454.0	37.0	3.0	462.3	461.3	444.0	460.2	18.0	21.0	3.0	9.5	6.5	0.25
YM4290		429.0	457.0	38.0	3.0	462.3	461.3	444.0	460.2	17.5	20.5	3.0	9.5	6.5	0.25
YM4290A		429.0	457.0	38.0	3.0	463.5	462.5	444.0		18.0	20.5	3		4	
YM4290B		429.0	458.0	38.0	3.0	463.5	462.5	444.0	461.4	17.5	20.5	3.0	9.5	6.5	0.25
YM4300	YM-61	430.0	457.0	38.0	3.0	462.3	461.3	444.0	460.2	17.5	20.5	3	9.5	6.5	0.25
YM4480		448.0	482.5	40.0	3.0	486.3	484.3	470.0	484.4	19.0	21.5	3.1	10.0	6.5	0.25
YM4500		450.0	480.0	50.0	3.0	492.2	490.2	470.0	489.2	23.5	25.5	4.0	13.0	6.0	0.40
YM4600		460.0	494.0	60.0	16.0	504.2	503.2	484.0	501.3	23.8	25.2	4.7	13.5	8.0	0.40
YM4650		465.0	495.0	44.0	3.0	500.7	498.5	482.9	498.9	21.2	22.9	4.7	10.5	7.0	0.25
YM4650A		465.0	497.2	44.0	3.0	503.1	500.9	482.9	501.3	21.2	23.0	4.7	10.5	7.0	0.25
YM4700		470.0	500.0	50.0	6.0	512.2	510.2	490.0	509.2	23.5	25.5	4.0	13.0	6.0	0.40
YM4700A	YM-65	470.0	500.0	50.0	3.0	512.2	510.2	490.0	509.3	23.5	25.5	4	13	6	0.40
YM5050		505.0	533.4	44.0	6.0	538.4	537.4	521.0	536.8	19.7	21.7	4.0	9.0	6.5	0.25
YM5050A	YM-74	505.0	533.4	43.6	6.0	538.4	537.4	521.0	536.8	19.7	21.7	4	9	6.5	0.25
YM5050B		505.0	535.8	44.0	3.0	541.8	539.7	521.0	540.3	19.7	21.7	4.2	9.0	6.5	0.25
YM5070		507.0	548.0	60.0	16.0	561.5	560.5	545.0	558.6	23.8	25.2	4.7	13.5	8.0	0.40
YM5080	YM-144	508.0	548.0	60.0	15.0	553.0	551.5	528.0	550.5	22.0	26.0	5	13	9	4.00
YM5300A	YM-89	530.0	560.0	50.0	3.0	572.2	570.2	545.0	569.2	23.5	25.5	4	13	6	0.40
YM5380		538.0	566.8	44.0	6.0	572.2	571.2	554.0	570.6	19.7	21.7	4.0	9.0	6.5	0.25
YM5380A	YM-146	538.0	566.8	43.6	6.0	572.2	571.2	554.0	570.6	19.7	21.7	4	9	6.5	0.25
YM5590A	YM-82	559.0	590.0	50.0	3.0	602.2	600.2	575.0	599.2	23.5	25.5	4	13	6	0.40
YM5760	YM-83	576.0	608.0	43.6	6.0	613.0	612.0	596.0	611.4	19.7	21.7	4	9	6.5	0.25
YM5810		581.0	608.0	44.0	6.0	613.0	612.0	596.0	611.4	19.7	21.7	4.0	9.0	6.5	0.25



SEAL SET

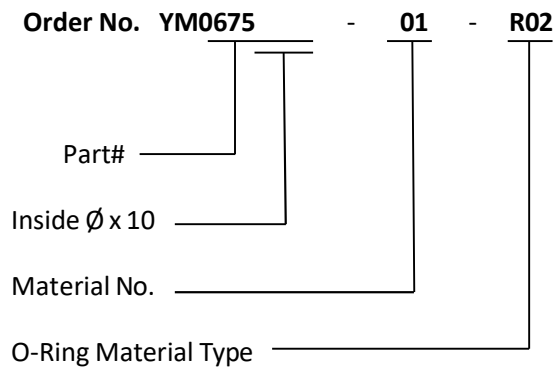


HOUSING BORE SPECIFICATIONS

Part#	Alternative Part #	ID	OD	H	A	dh*	de*	df*	dg*	t1	t2 min	t3	t4	r	Tol. For *
YM5810A		581.0	608.0	44.0	6.0	613.0	612.0	596.0	611.4	19.7	21.7	4.0	9.0	6.5	0.25
YM5910A	YM-76	591.0	623.0	50.0	5.3	635.2	633.2	613.0	632.2	23.5	25.5	4	13	6	0.40
YM5960A	YM-90	596.0	628.0	50.0	5.3	640.2	638.2	618.0	637.2	23.5	25.5	4	13	6	0.40
YM6200		620.0	650.0	50.0	5.3	662.2	660.2	635.0	659.2	23.5	25.5	4.0	13.0	6.0	0.40
YM6600		660.0	695.0	53.0	13.0	704.0	702.0	680.0	701.9	20.0	22.5	4.0	10.5	6.0	0.40
YM6600A	YM-75	660.0	695.0	53.0	13.0	705.3	703.3	680.0	703.2	20.0	22.5	4	10.5	6	0.40
YM6670		667.0	700.0	44.0	9.0	705.6	704.3	687.0	703.2	21.3	24.0	3.7	11.0	6.3	0.25
YM6670A		667.0	700.0	50.0	6.0	705.6	704.3	687.7	703.2	21.3	26.2	3.7	11.0	6.3	0.15
YM7180A	YM-86	718.0	750.0	50.0	3.0	762.2	760.2	740.0	759.2	23.5	25.5	4	13	6	0.40
YM7380		738.0	770.0	50.0	3.0	782.0	780.0	760.0	779.0	24.0	26.0	4.0	13.0	6.0	0.40
YM7400	YM-162	740.0	801.0	80.0	17.0	816.9	815.9	784.0	812.8	34.5	39.5	4.4	17	10	0.40
YM7700		770.0	826.0	80.0	17.0	831.9	830.9	800.0	827.8	34.5	39.5	4.4	17.0	10.0	0.40
YM7800A	YM-154	780.0	836.0	80.0	17.0	841.9	840.9	810.0	837.8	34.5	39.5	4.4	17	10	0.40
YM8170		817.0	865.0	46.6	12.0	870.6	869.7	852.7	868.2	21.3	26.2	3.8	11.0	6.3	0.15
YM8250		825.0	865.0	48.0	11.0	870.6	869.6	852.7	868.2	18.5	23.3	3.7	11.0	6.3	0.15
YM8300		830.0	886.0	80.0	17.0	891.9	890.9	860.0	887.8	34.5	39.5	4.5	17.0	10.0	0.40
YM8320		832.0	865.0	44.0	6.0	870.6	869.7	852.7	868.2	21.3	26.2	3.7	11.0	6.3	0.15
YM8320A		832.0	865.0	46.6	12.0	870.6	869.7	852.7	868.2	21.3	26.2	3.8	11.0	6.3	0.15
YM8900	YM-163	890.0	951.0	80.0	17.0	956.9	955.9	924.0	952.8	30.0	34.0	4.4	17	10	0.40
YM9020		902.0	941.0	60.0	16.0	946.3	945.2	922.4	943.4	23.8	25.2	4.7	13.5	8.0	0.40
YM9020A	YM-141	902.0	941.0	60.0	16.0	946.3	945.2	922.4	943.4	23.8	25.2	4.65	13.5	8	0.40
YM9200A	YM-155	920.0	976.0	80.0	17.0	981.9	980.9	950.0	977.8	34.5	39.5	4.4	17	10	0.40
YM10300		1030.0	1085.0	80.0	17.0	1090.9	1089.9	1058.0	1086.8	34.5	39.5	4.4	17.0	10.0	0.40
YM10480		1048.0	1105.0	80.0	17.0	1110.9	1109.0	1078.0	1106.8	34.5	39.5	4.4	17.0	10.0	0.40
YM11750	YM-156	1175.0	1236.0	80.0	26.0	1241.9	1240.4	1209.0	1237.8	32.5	37.5	4.4	17	10	0.40
YM13720		1372.0	1425.0	80.0	17.0	1430.9	1429.9	1398.0	1426.8	32.5	37.5	4.4	17.0	10.0	0.40
YM13720A	YM-147	1372.0	1425.0	80.0	26.0	1430.9	1429.9	1398.0	1426.8	32.5	37.5	4.4	17	10	0.40



Ordering Example:



Mechanical Face Seal Type DO in
Casted Seal Rings
Inside Diameter Di=67.5
Seal Ring Material = Yimainite A O-
Ring = HNBR

Casted Material Type

- 01 - Yimainite A
- 02 - Yimainite B

O-Ring Material Type

- R01 – NBR
- R02 – HNBR
- R03 – VMQ

Applications:

- Agricultural Machines
- Axles
- Conveyor Systems
- Heavy Trucks
- Mining Machines
- Tracked Vehicles e.g., Excavator, Bulldozer, Tractors
- Tunnel Boring Machines



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