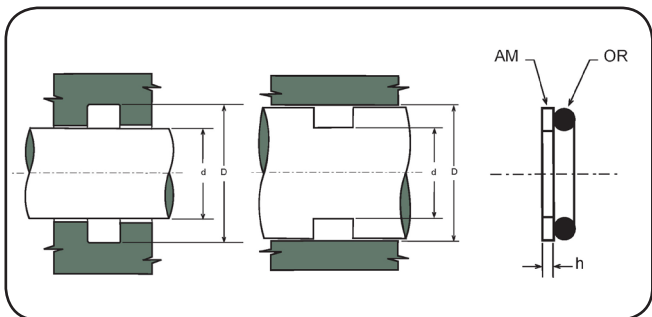


AM SUPPORT RINGS



MAIN FEATURES

AM rings for metric sizes are designed to withstand high pressures. Their elasticity makes it easy to install in a short time without using accessories. The material coated in a medium-hard polyester resin, mainly used for the production of anti-extrusion rings, improves the effectiveness and service life of the sealing system in applications where the main feature, such as resistance to abrasion and shear strength, is critical.

Coupling maximum pressure (bar)

Clearance (mm)	NBR 70 (bar)	NBR 90 (bar)	AP Ring (bar)
0.05	190	330	500
0.10	130	270	400
0.15	110	230	350
0.20	100	210	300
0.25	90	190	270

• For the coupling clearance calculation, the elastic deformation of the mechanical part under pressure must be considered.

AM

DESCRIPTION

O-Ring support rings

DYNAMIC SURFACE MATERIAL

Polyester Resin

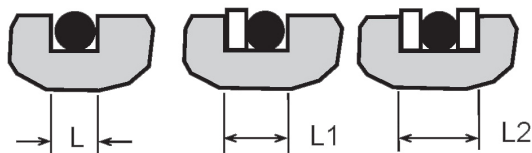
OPERATING CONDITIONS

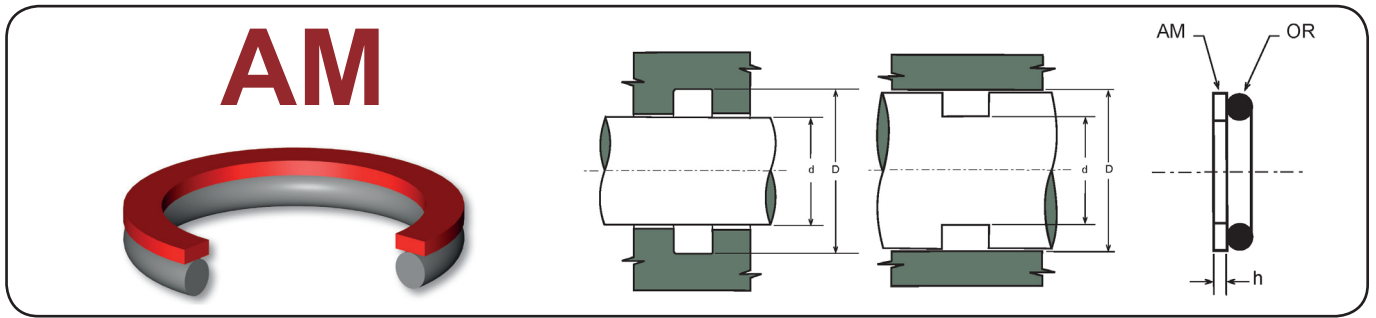
Hardness: 55 Sh. D
Temperature: -40°C + 140°C.

COMMON FEATURES

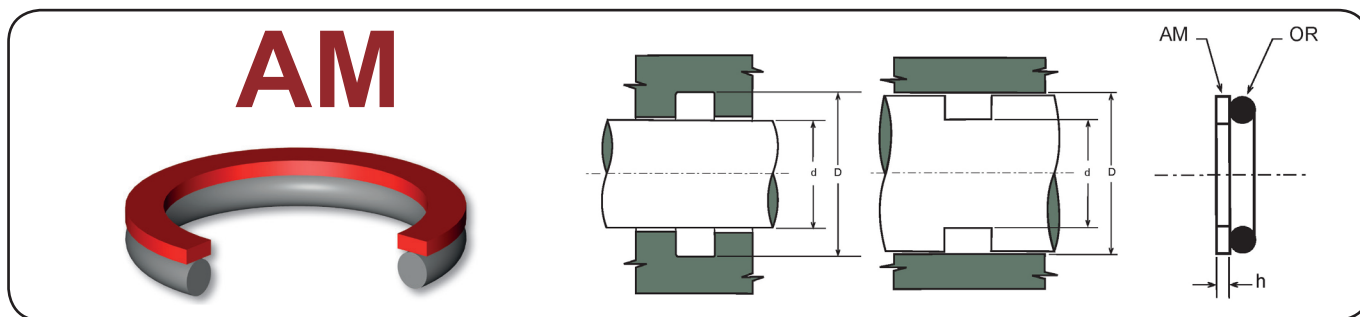
Support rings are used as additional elements of the O-rings. The purpose of these support rings is to prevent the O-ring from being pushed into the gap between the two metal parts to be sealed.

The support ring is mounted behind the O-ring, on the side opposite to the pressure, if it acts in one direction, and if it acts alternatively, two support rings, one on each side of the seal. As a consequence of support rings' distinctive movement, working pressure causes deformation, closing the extrusion gap and thus avoiding premature damage to the O-ring. Thanks to the combination of O-Rings in standard material 70 NBR and support rings, working pressures in static applications of up to 400 bar and dynamic work pressures of up to 250 bar are possible with a maximum extrusion gap of 0.3 mm. By reducing tolerances, work at higher pressures is possible.





AM	REFERENCE		Ring thk	O-ring size	Rod Ø d f7	Piston Ø D H9	1 Ring L 1+0.2	2 Rings L 2+0.2
	10.00	14.00						
AM	10.00	14.00	1.30	9.30 x 2.40	10.00	14.00	4.50	5.80
AM	12.00	16.00	1.30	11.30 x 2.40	12.00	16.00	4.50	5.80
AM	16.00	20.00	1.30	15.30 x 2.40	16.00	20.00	4.50	5.80
AM	20.00	25.00	1.30	19.20 x 3.00	20.00	25.00	5.30	6.60
AM	25.00	30.00	1.30	24.20 x 3.00	25.00	30.00	5.30	6.60
AM	30.00	35.00	1.30	29.20 x 3.00	30.00	35.00	5.30	6.60
AM	35.00	40.00	1.30	34.20 x 3.00	35.00	40.00	5.30	6.60
AM	40.00	45.00	1.30	39.20 x 3.00	40.00	45.00	5.30	6.60
AM	45.00	50.00	1.30	44.20 x 3.00	45.00	50.00	5.30	6.60
AM	50.00	55.00	1.30	49.50 x 3.00	50.00	55.00	5.30	6.60
AM	50.00	60.00	1.70	49.20 x 5.70	50.00	60.00	9.50	11.50
AM	55.00	60.00	1.30	54.50 x 3.00	55.00	60.00	5.30	6.60
AM	58.00	63.00	1.30	57.00 x 3.00	58.00	63.00	5.30	6.60
AM	60.00	65.00	1.30	59.50 x 3.00	60.00	65.00	5.30	6.60
AM	60.00	67.00	1.50	59.00 x 4.00	60.00	67.00	6.90	8.40
AM	60.00	70.00	1.70	59.20 x 5.70	60.00	70.00	9.50	11.50
AM	65.00	70.00	1.30	64.50 x 3.00	65.00	70.00	5.30	6.60
AM	65.00	75.00	1.70	64.20 x 5.70	65.00	75.00	9.50	11.50
AM	70.00	75.00	1.30	69.50 x 3.00	70.00	75.00	5.30	6.60
AM	70.00	77.00	1.50	69.00 x 4.00	70.00	77.00	6.90	8.40
AM	70.00	80.00	1.70	69.20 x 5.70	70.00	80.00	9.50	11.50
AM	75.00	80.00	1.30	74.60 x 3.00	75.00	80.00	5.30	6.60
AM	75.00	85.00	1.70	74.20 x 5.70	75.00	85.00	9.50	11.50
AM	80.00	85.00	1.30	79.50 x 3.00	80.00	85.00	5.30	6.60
AM	80.00	87.00	1.50	79.00 x 4.00	80.00	87.00	6.90	8.40
AM	80.00	90.00	1.70	79.20 x 5.70	80.00	90.00	9.50	11.50
AM	85.00	90.00	1.30	84.50 x 3.00	85.00	90.00	5.30	6.60
AM	85.00	95.00	1.70	84.10 x 5.70	85.00	95.00	9.50	11.50
AM	90.00	95.00	1.30	89.50 x 3.00	90.00	95.00	5.30	6.60
AM	90.00	100.00	1.70	89.10 x 5.70	90.00	100.00	9.50	11.50
AM	95.00	100.00	1.30	94.50 x 3.00	95.00	100.00	5.30	6.60
AM	95.00	105.00	1.70	94.10 x 5.70	95.00	105.00	9.50	11.50



AM	REFERENCE		Ring thickness	O-ring size	Rod Ø d f7	Piston Ø D H9	1 Ring L 1+0.2	2 Rings L 2+0.2
	100.00	105.00						
AM	100.00	105.00	1.30	99.50 x 3.00	100.00	105.00	5.30	6.60
AM	100.00	110.00	1.70	99.10 x 5.70	100.00	110.00	9.50	11.50
AM	105.00	110.00	1.30	104.50 x 3.00	105.00	110.00	5.30	6.60
AM	105.00	115.00	1.70	104.10 x 5.70	105.00	115.00	9.50	11.50
AM	110.00	115.00	1.30	109.50 x 3.00	110.00	115.00	5.30	6.60
AM	110.00	120.00	1.70	109.10 x 5.70	110.00	120.00	19.50	11.50
AM	115.00	120.00	1.30	114.50 x 3.00	115.00	120.00	5.30	6.60
AM	115.00	125.00	1.70	114.30 x 5.70	115.00	125.00	9.50	11.50
AM	120.00	125.00	1.30	119.50 x 3.00	120.00	125.00	5.30	6.60
AM	120.00	130.00	1.70	119.30 x 5.70	120.00	130.00	9.50	11.50
AM	125.00	130.00	1.30	124.50 x 3.00	125.00	130.00	5.30	6.60
AM	125.00	135.00	1.70	124.30 x 5.70	125.00	135.00	9.50	11.50
AM	130.00	140.00	1.70	129.30 x 5.70	130.00	140.00	9.50	11.50
AM	135.00	145.00	1.70	134.30 x 5.70	135.00	145.00	9.50	11.50
AM	140.00	150.00	1.70	139.30 x 5.70	140.00	150.00	9.50	11.50
AM	142.00	151.00	1.80	140.00 x 5.30	142.00	151.00	9.00	10.80
AM	145.00	155.00	1.70	144.30 x 5.70	145.00	155.00	9.50	11.50
AM	150.00	160.00	1.70	149.30 x 5.70	150.00	160.00	9.50	11.50
AM	152.00	161.00	1.80	150.00 x 5.30	152.00	161.00	9.00	10.80