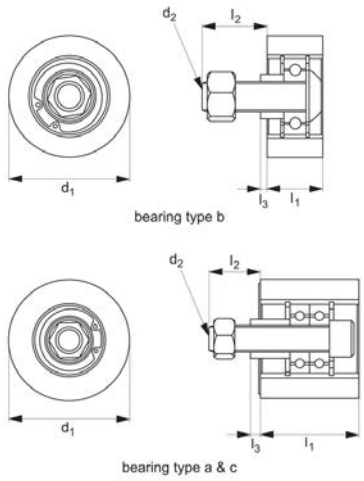
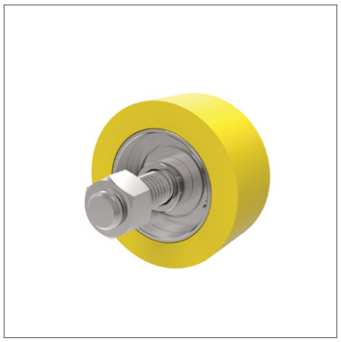




P2754

Material
Nitrile, urethane or neoprene bonded to a steel insert.
Hardness from 20-80 durometer (Shore A).

Technical Notes
Bearings included (held in place with snap rings). For more details on bearings please see technical pages. Assembled with socket head cap screw, spacer and lock nut.

Order No.	Material	Durometer	d_1	l_1	d_2	l_2	l_3	Bearing type
P2754.15A20NI	Nitrile	20	38,1 (1,5“)	31.80	5/16-18“	16.00	3.05	A
P2754.20A20NI	Nitrile	20	50,8 (2,0“)	23.37	1/2-13“	27.94	3.05	B
P2754.20A35NI	Nitrile	35	50,8 (2,0“)	23.37	1/2-13“	27.94	3.05	B
P2754.20A60NP	Nitrile	60	50,8 (2,0“)	23.37	1/2-13“	27.94	3.05	B
P2754.20A80NI	Nitrile	80	50,8 (2,0“)	23.37	1/2-13“	27.94	3.05	B
P2754.20B20NI	Nitrile	20	50,8 (2,0“)	49.28	1/2-13“	35.81	6.35	C
P2754.20B35NI	Nitrile	35	50,8 (2,0“)	49.28	1/2-13“	35.81	6.35	C
P2754.20B60NI	Nitrile	60	50,8 (2,0“)	49.28	1/2-13“	35.81	6.35	C
P2754.20B80NI	Nitrile	80	50,8 (2,0“)	49.28	1/2-13“	35.81	6.35	C
P2754.25A20NI	Nitrile	20	63,5 (2,5“)	23.37	1/2-13“	27.94	3.05	B
P2754.25A35NI	Nitrile	35	63,5 (2,5“)	23.37	1/2-13“	27.94	3.05	B
P2754.25A60NI	Nitrile	60	63,5 (2,5“)	23.37	1/2-13“	27.94	3.05	B
P2754.25A80NI	Nitrile	80	63,5 (2,5“)	23.37	1/2-13“	27.94	3.05	B
P2754.25B20NI	Nitrile	20	63,5 (2,5“)	49.28	1/2-13“	35.81	6.35	C
P2754.25B35NI	Nitrile	35	63,5 (2,5“)	49.28	1/2-13“	35.81	6.35	C
P2754.25B60NI	Nitrile	60	63,5 (2,5“)	49.28	1/2-13“	35.81	6.35	C
P2754.25B80NI	Nitrile	80	63,5 (2,5“)	49.28	1/2-13“	35.81	6.35	C
P2754.40A20NP	Nitrile	20	101,6 (4,0“)	23.37	1/2-13“	27.94	3.05	B
P2754.40A35NP	Nitrile	35	101,6 (4,0“)	23.37	1/2-13“	27.94	3.05	B
P2754.40A60NI	Nitrile	60	101,6 (4,0“)	23.37	1/2-13“	27.94	3.05	B
P2754.40A80NI	Nitrile	80	101,6 (4,0“)	23.37	1/2-13“	27.94	3.05	B
P2754.40B20NP	Nitrile	20	101,6 (4,0“)	49.28	1/2-13“	35.56	6.35	C
P2754.40B60NI	Nitrile	60	101,6 (4,0“)	49.28	1/2-13“	35.56	6.35	C
P2754.40B80NI	Nitrile	60	101,6 (4,0“)	49.28	1/2-13“	35.56	6.35	C
P2754.15A80UR	Urethane	80	38,1 (1,5“)	31.80	5/16-18“	16.00	3.05	A
P2754.20A35UR	Urethane	35	50,8 (2,0“)	23.37	1/2-13“	27.94	3.05	B
P2754.20A60UR	Urethane	60	50,8 (2,0“)	23.37	1/2-13“	27.94	3.05	B
P2754.20A80UR	Urethane	80	50,8 (2,0“)	23.37	1/2-13“	27.94	3.05	B
P2754.20B35UR	Urethane	35	50,8 (2,0“)	49.28	1/2-13“	35.81	6.35	C
P2754.20B60UR	Urethane	60	50,8 (2,0“)	49.28	1/2-13“	35.81	6.35	C
P2754.20B80UR	Urethane	80	50,8 (2,0“)	49.28	1/2-13“	35.81	6.35	C
P2754.25A35UR	Urethane	35	63,5 (2,5“)	23.37	1/2-13“	27.94	3.05	B
P2754.25A60UR	Urethane	60	63,5 (2,5“)	23.37	1/2-13“	27.94	3.05	B
P2754.25A80UR	Urethane	80	63,5 (2,5“)	23.37	1/2-13“	27.94	3.05	B
P2754.25B35UR	Urethane	35	63,5 (2,5“)	49.28	1/2-13“	35.81	6.35	C

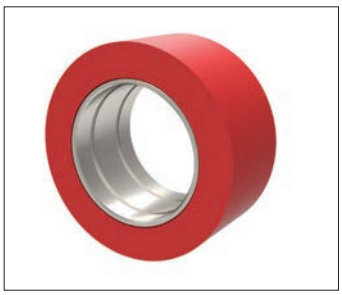
Solid Roller

stud mount

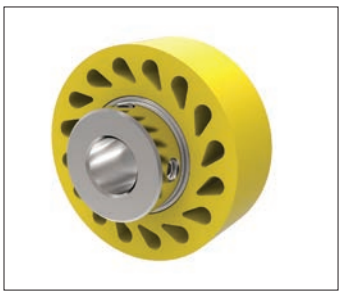
Order No.	Material	Durometer	d_1	l_1	d_2	l_2	l_3	Bearing type
P2754.25B60UR	Urethane	60	63,5 (2,5“)	49.28	1/2-13“	35.81	6.35	C
P2754.25B80UR	Urethane	80	63,5 (2,5“)	49.28	1/2-13“	35.81	6.35	C
P2754.40A35UR	Urethane	35	101,6 (4,0“)	23.37	1/2-13“	27.94	3.05	B
P2754.40A60UR	Urethane	60	101,6 (4,0“)	23.37	1/2-13“	27.94	3.05	B
P2754.40A80UR	Urethane	80	101,6 (4,0“)	23.37	1/2-13“	27.94	3.05	B
P2754.40B35UR	Urethane	35	101,6 (4,0“)	49.28	1/2-13“	35.56	6.35	C
P2754.40B60UR	Urethane	60	101,6 (4,0“)	49.28	1/2-13“	35.56	6.35	C
P2754.40B80UR	Urethane	60	101,6 (4,0“)	49.28	1/2-13“	35.56	6.35	C
P2754.50A35UR	Urethane	35	127,0 (5,0“)	49.28	1/2-13“	35.56	6.35	C
P2754.50A60UR	Urethane	60	127,0 (5,0“)	49.28	1/2-13“	35.56	6.35	C
P2754.50A80UR	Urethane	80	127,0 (5,0“)	49.28	1/2-13“	35.56	6.35	C
P2754.60A35UR	Urethane	35	152,4 (6,0“)	49.28	1/2-13“	35.56	6.35	C
P2754.60A60UR	Urethane	60	152,4 (6,0“)	49.28	1/2-13“	35.56	6.35	C
P2754.60A80UR	Urethane	80	152,4 (6,0“)	49.28	1/2-13“	35.56	6.35	C
P2754.20A20NP	Neoprene	20	50,8 (2,0“)	23.37	1/2-13“	27.94	3.05	B
P2754.20A35NP	Neoprene	35	50,8 (2,0“)	23.37	1/2-13“	27.94	3.05	B
P2754.20B20NP	Neoprene	20	50,8 (2,0“)	49.28	1/2-13“	35.81	6.35	C
P2754.20B35NP	Neoprene	35	50,8 (2,0“)	49.28	1/2-13“	35.81	6.35	C
P2754.20B60NP	Neoprene	60	50,8 (2,0“)	49.28	1/2-13“	35.81	6.35	C
P2754.20B80NP	Neoprene	80	50,8 (2,0“)	49.28	1/2-13“	35.81	6.35	C
P2754.25A20NP	Neoprene	20	63,5 (2,5“)	23.37	1/2-13“	27.94	3.05	B
P2754.25A35NP	Neoprene	35	63,5 (2,5“)	23.37	1/2-13“	27.94	3.05	B
P2754.25A60NP	Neoprene	60	63,5 (2,5“)	23.37	1/2-13“	27.94	3.05	B
P2754.25A80NP	Neoprene	80	63,5 (2,5“)	23.37	1/2-13“	27.94	3.05	B
P2754.25B20NP	Neoprene	20	63,5 (2,5“)	49.28	1/2-13“	35.81	6.35	C
P2754.25B35NP	Neoprene	35	63,5 (2,5“)	49.28	1/2-13“	35.81	6.35	C
P2754.25B60NP	Neoprene	60	63,5 (2,5“)	49.28	1/2-13“	35.81	6.35	C
P2754.25B80NP	Neoprene	80	63,5 (2,5“)	49.28	1/2-13“	35.81	6.35	C
P2754.40A20NI	Neoprene	20	101,6 (4,0“)	23.37	1/2-13“	27.94	3.05	B
P2754.40A35NI	Neoprene	35	101,6 (4,0“)	23.37	1/2-13“	27.94	3.05	B
P2754.40A60NP	Neoprene	60	101,6 (4,0“)	23.37	1/2-13“	27.94	3.05	B
P2754.40A80NP	Neoprene	80	101,6 (4,0“)	23.37	1/2-13“	27.94	3.05	B
P2754.40B20NI	Neoprene	20	101,6 (4,0“)	49.28	1/2-13“	35.56	6.35	C
P2754.40B35NI	Neoprene	35	101,6 (4,0“)	49.28	1/2-13“	35.56	6.35	C
P2754.40B60NP	Neoprene	60	101,6 (4,0“)	49.28	1/2-13“	35.56	6.35	C
P2754.40B80NP	Neoprene	60	101,6 (4,0“)	49.28	1/2-13“	35.56	6.35	C

Wixroyd Rollers

Product overview



Solid rollers - have a smooth surface and a solid body



Durasoft rollers - have a smooth contact surface with teardrop holes to allow greater roller compression under load.

Finned rollers - are grooved and provide self-cleaning as dirt, debris and liquid pass under the contact surface of the roller.

Durability levels

20 durometer:
Stiff foam rubber

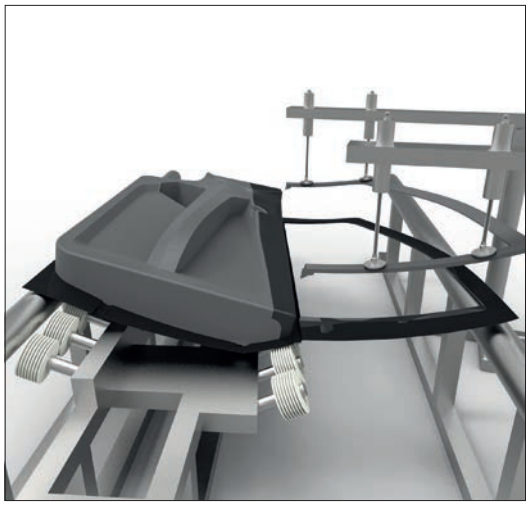
35 durometer:
Pencil rubber top

60 durometer:
Car tyre

80 durometer:
Skateboard wheel

90 durometer:
Hockey puck

Applications



Rollers are used in car manufacturing to guide and align doors during bonding and curing applications

Bumpers have found their way into commercial exercise equipment to provide protection and stability during use.

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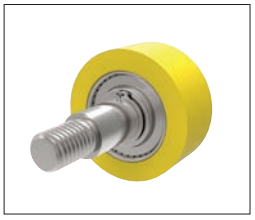
Materials colour guide and properties

Nitrile and neoprene

Nitrile - one colour

Neoprene - one colour

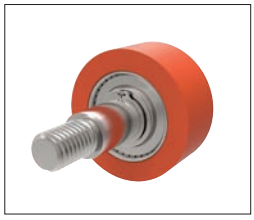
Urethane



35 Durometer (Yellow)

60 Durometer (Blue)

80 Durometer (Red)



95 Durometer (Orange)

Material properties

Base Elastomer	Chemical Name	Advantages	Disadvantages	Max. Temp	Min. Temp
Nitrile	Nitrile Butadiene	Resistant to petrolium, oil, alcohol & abrasion.	Affected by degreaser solvents.	Continuous 79°C Intermittent 107°C	-51°C
Neoprene	Chloroprene	Flame and weather resistant. Resistant to Petroleum, oil, ozone & high temp.	Affected by phosphate hydraulic fluids, aromatic hydrocarbons.	Continuous 93°C Intermittent 121°C	-40°C
Urethane	Di-Isocyante Polyurethane	Highest abrasion resistance, strength & load bearing. High elongation, hardness. Resistance to Ozone & Oxygen.	Affected by ether, esters, acid, aromatics, alkallis.	Continuous 93°C Intermittent 121°C	-54°C

Property:	Nitrile	Neoprene	Urethane
Tensile Strength	✓ ✓	✓ ✓ ✓	✓ ✓ ✓ ✓
Ozone Resistance	✓	✓ ✓	✓ ✓ ✓ ✓
Cut Resistance	✓ ✓	✓ ✓ ✓	✓ ✓ ✓ ✓
Abrasion Resistance	✓ ✓	✓ ✓ ✓	✓ ✓ ✓ ✓

Resistance To:	Nitrile	Neoprene	Urethane
Compression Set	✓ ✓	✓ ✓ ✓	✓ ✓ ✓
ASTM #1 Oil	✓ ✓ ✓ ✓	✓ ✓	✓ ✓ ✓ ✓
ASTM #2 Oil	✓ ✓ ✓ ✓	✓ ✓	✓ ✓ ✓ ✓
Reference Fuel B	✓ ✓ ✓	✓ ✓	✓ ✓ ✓ ✓
Ketones: MEK	✓	✓ ✓	✓
Aromatics: Toluene	✓ ✓ ✓	✓	✓ ✓ ✓ ✓
Aliphatics: Hexane	✓ ✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓ ✓
Ethyl Acetate	✓	✓ ✓ ✓	✓
Cellosolve	✓ ✓	✓ ✓ ✓ ✓	✓
Methylene Chloride	✓	✓	✓ ✓ ✓ ✓
Trichloroethylene	✓	✓	✓ ✓ ✓ ✓
Diethylene Glycol	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓
Isopropyl Alcohol	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
Caustics: 10% NaOH	✓ ✓ ✓	✓ ✓ ✓	✓
Acids: H2S04	✓ ✓	✓ ✓ ✓	✓

Excellent ✓ ✓ ✓ ✓ Good ✓ ✓ ✓ Fair ✓ ✓ Poor ✓

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The tables below show the maximum theoretical radius loads that can be applied to the respective bearings.Refer to individual product tables to identify bearing type supplied with roller.

Standard bearings

Bearing Type	Inside diameter (inches)	Outside diameter (inches)	Width (inches)	Load (Kg)	Speed (rpm)
A - Standard Double	.313/.317	.870/.875	.498/.502	55 36 24 20	50 100 250 500
B - Standard Single	.500/505	1.245/1.250	.370/.380	119 79 51 47	50 100 250 500
C - Standard Double	.500/505	1.245/1.250	.745/.755	192 128 83 70	50 100 250 500

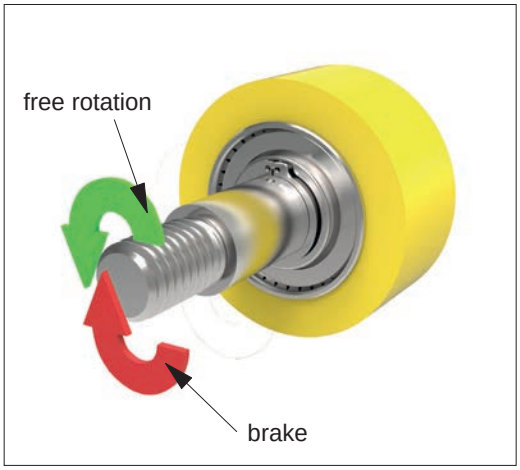
With the calculations above, typical life is approximately 2500 hours.

Clutch bearings

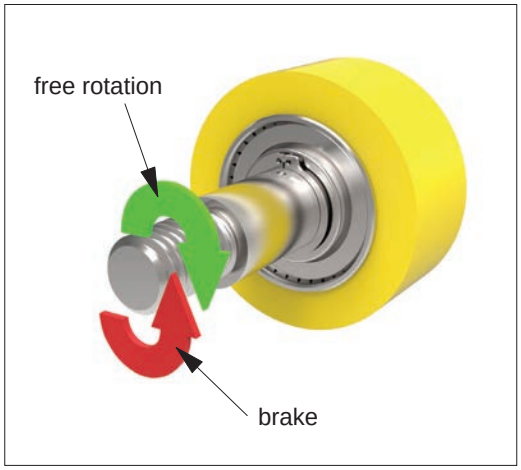
Bearing Type	Inside diameter (inches)	Outside diameter (inches)	Width (inches)	Load (Kg)	Speed (rpm)
H	.3745/.3750	.6245/.6255	.865/.875	167 146 116 85	33 50 100 250
I	.6245/.6250	.8745/.8755	.990/1.000	277 242 192 142	33 50 100 250

With the calculations above, typical life is approximately 1,000,000 revolutions or 500 hours. The bearings are shielded and pre-lubricated for life with grease.

A clutch roller can only be used in one direction, as shown. See data table for clutch direction of particular part.



Left clutch bearing



Right clutch bearing