



Available materials

- CC	Chrome steel AISI 52100 Balls. Machined AISI 1016 steel housing, toughened & zinc plated
Solve specific application requirements by upgrading materials. Select option by adding suffix i.e. - CS	
- CS	Stainless Steel Balls (AISI 420) but other materials as Standard. Reduce load by 30%.
- SS	All parts in Stainless Steel - out housing AISI 416, Balls AISI 420. Reduce load by 30%.
- CD	Acetal (POM) main ball option - reduce load. See chart overleaf

Fixing clip selection

Part No.	Ball Size	Minimum Bore ø	Maximum Bore ø
P2730.015	15	24,8	25,0
P2730.022	22	37,0	37,2
P2730.030	30	46,3	46,7

Clip requires a minimum plate thickness of 3mm to grip securely

How to select the correct unit

Ball Type	Max Load (Kg)	Friction (% of load)	Speed m/sec	Shock Loads		Arduous Conditions	Orientation	Instant Change
Medium Duty	20-3500	2%	1,5	✓✓✓	✓✓	✓✓		✓✓✓
Light Duty	7-250	3%	1,0	✓		✓✓		✓✓✓

Variables to consider:



Shock Loads:

Standard material ball units have Rockwell 'C' hardness of 60 minimum



Track Hardness/Conveyed Item Material:

Standard material ball units have Rockwell 'C' hardness of 60 minimum



Delicate Surfaces:

Ball Units - Acetal (POM) & Phenolic Resin

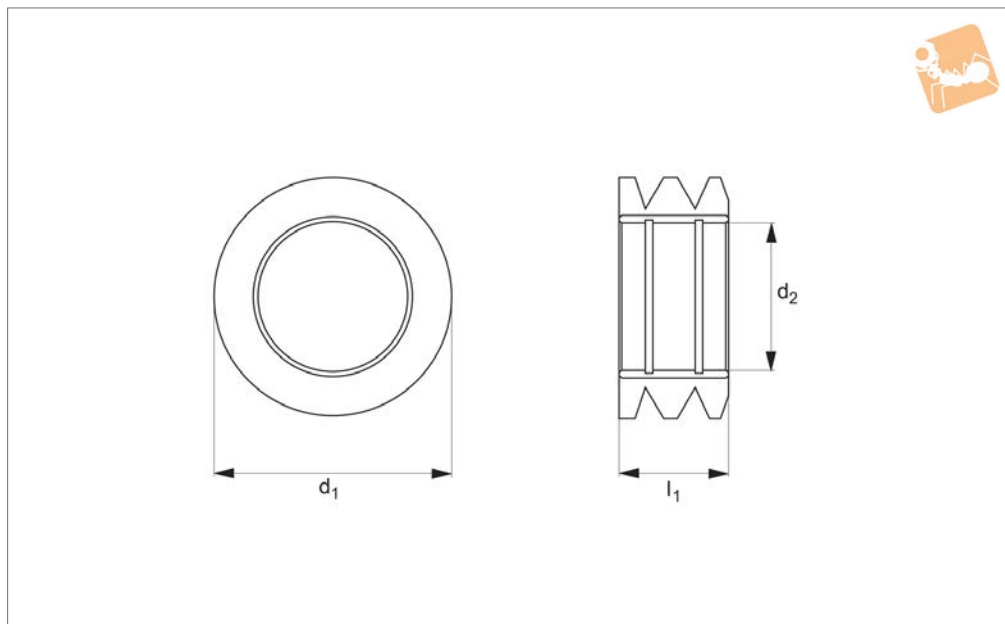


Operating Environment:

Wet, dirty, outdoor, radioactive



P2770



Material

Nitrile, urethane or neoprene bonded to a steel insert. Hardness from 20-60 durometer (Shore A).

Technical Notes

Roller only - allows for custom mounting.

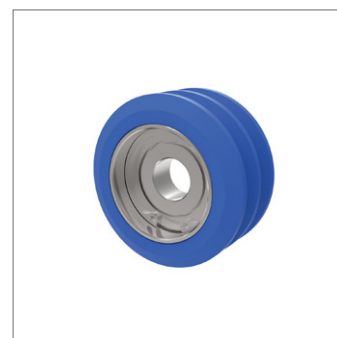
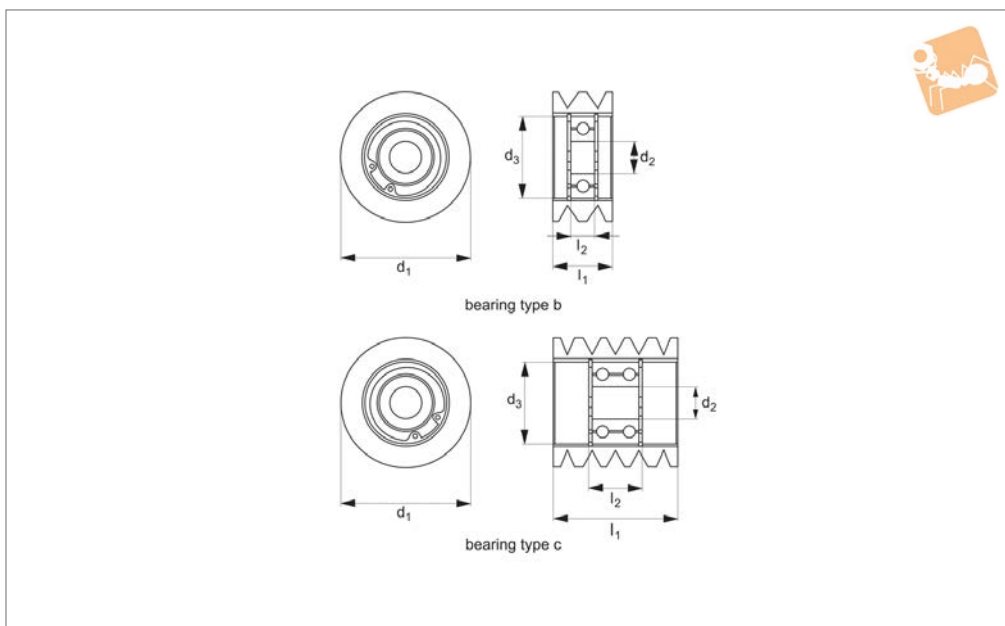
Tips

Finned rollers have grooves on the surface, creating less surface contact with the workpiece, and allowing dirt, debris and liquid to pass.



Finned Roller bearing mount

Material Hand-
ling



P2772

MATERIAL HANDLING

Material

Nitrile, urethane or neoprene bonded to a steel insert. Hardness from 20-60 durometer (Shore A).

Technical Notes

Bearings included (held in place with snap

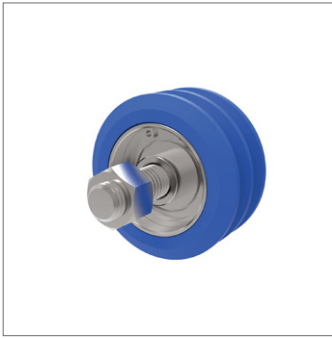
rings). For more details on bearings please see technical pages.

Tips

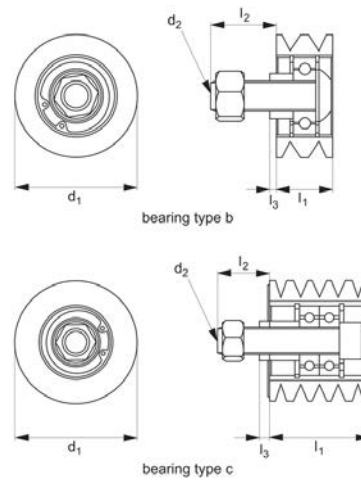
Finned rollers have grooves on the surface, creating less surface contact with the workpiece, and allowing dirt, debris and

liquid to pass.

Order No.	Material	Durometer	Bearing type	d ₁	l ₁	d ₂ -0/+0.13	d ₃ -0/+0.13	l ₂ -0/+0.13	No. of fins
P2772.20A20NI	Nitrile	20	B	50,8 (2")	23.37	12.7	31.62	9.40	3
P2772.20A35NI	Nitrile	35	B	50,8 (2")	23.37	12.7	31.62	9.40	3
P2772.20A60NI	Nitrile	60	B	50,8 (2")	23.37	12.7	31.62	9.40	3
P2772.20B20NI	Nitrile	20	C	50,8 (2")	49.28	12.7	31.62	18.92	6
P2772.20B35NI	Nitrile	35	C	50,8 (2")	49.28	12.7	31.62	18.92	6
P2772.20B60NI	Nitrile	60	C	50,8 (2")	49.28	12.7	31.62	18.92	6
P2772.25A20NI	Nitrile	20	B	63,5 (2,5")	23.37	12.7	31.62	9.40	3
P2772.25A35NI	Nitrile	35	B	63,5 (2,5")	23.37	12.7	31.62	9.40	3
P2772.25A60NI	Nitrile	60	B	63,5 (2,5")	23.37	12.7	31.62	9.40	3
P2772.20A35UR	Urethane	35	B	50,8 (2")	23.37	12.7	31.62	9.40	3
P2772.20A60UR	Urethane	60	B	50,8 (2")	23.37	12.7	31.62	9.40	3
P2772.20B35UR	Urethane	35	C	50,8 (2")	49.28	12.7	31.62	18.92	6
P2772.20B60UR	Urethane	60	C	50,8 (2")	49.28	12.7	31.62	18.92	6
P2772.25A35UR	Urethane	35	B	63,5 (2,5")	23.37	12.7	31.62	9.40	3
P2772.25A60UR	Urethane	60	B	63,5 (2,5")	23.37	12.7	31.62	9.40	3
P2772.20A20NP	Neoprene	20	B	50,8 (2")	23.37	12.7	31.62	9.40	3
P2772.20A35NP	Neoprene	35	B	50,8 (2")	23.37	12.7	31.62	9.40	3
P2772.20A60NP	Neoprene	60	B	50,8 (2")	23.37	12.7	31.62	9.40	3
P2772.20B20NP	Neoprene	20	C	50,8 (2")	49.28	12.7	31.62	18.92	6
P2772.20B35NP	Neoprene	35	C	50,8 (2")	49.28	12.7	31.62	18.92	6
P2772.20B60NP	Neoprene	60	C	50,8 (2")	49.28	12.7	31.62	18.92	6
P2772.25A20NP	Neoprene	20	B	63,5 (2,5")	23.37	12.7	31.62	9.40	3
P2772.25A35NP	Neoprene	35	B	63,5 (2,5")	23.37	12.7	31.62	9.40	3
P2772.25A60NP	Neoprene	60	B	63,5 (2,5")	23.37	12.7	31.62	9.40	3



P2774



Material

Nitrile, urethane or neoprene bonded to a steel insert. Hardness from 20-60 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.

Tips

Finned rollers have grooves on the surface, creating less surface contact with the

workpiece, and allowing dirt, debris and liquid to pass.

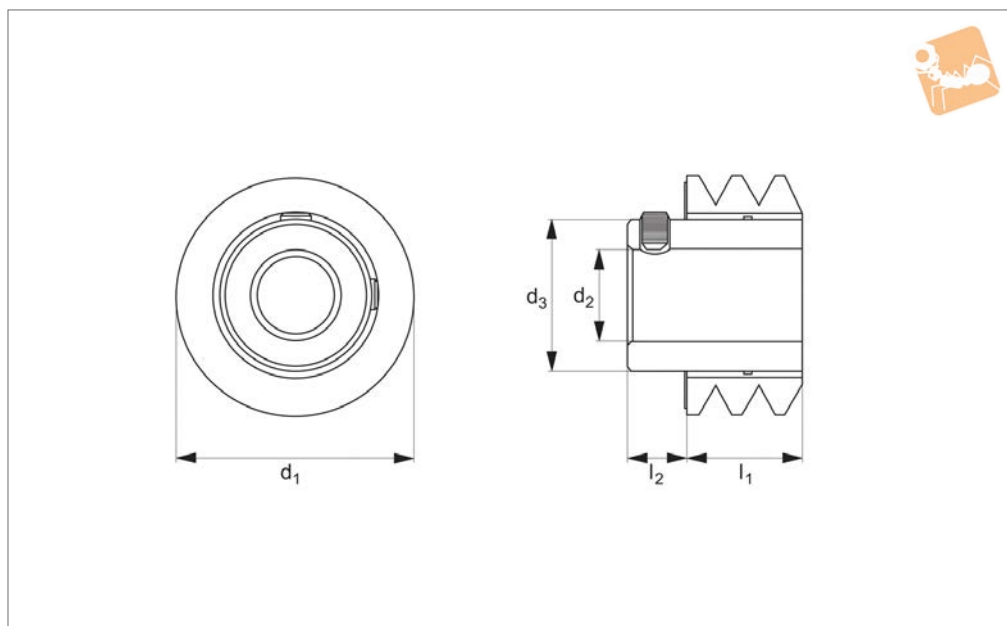
Order No.	Material	Duro.	Bearing type	d ₁	l ₁	d ₂	l ₂	l ₃	No. of bearings	No. of fins
P2774.20A-20NI	Nitrile	20	B	50,8 (2")	23.37	41306	27.94	3.05	1	3
P2774.20A-35NI	Nitrile	35	B	50,8 (2")	23.37	41306	27.94	3.05	1	3
P2774.20A-60NI	Nitrile	60	B	50,8 (2")	23.37	41306	27.94	3.05	1	3
P2774.20B-20NI	Nitrile	20	C	50,8 (2")	49.27	41306	35.81	6.35	1	6
P2774.20B-35NI	Nitrile	35	C	50,8 (2")	49.27	41306	35.81	6.35	1	6
P2774.20B-60NI	Nitrile	60	C	50,8 (2")	49.27	41306	35.81	6.35	1	6
P2774.25A-20NI	Nitrile	20	B	63,5 (2")	49.27	41306	27.94	3.05	1	3
P2774.25A-35NI	Nitrile	35	B	50,8 (2")	49.27	41306	27.94	3.05	1	3
P2774.25A-60NI	Nitrile	60	B	50,8 (2")	49.27	41306	27.94	3.05	1	3
P2774.20A-35UR	Urethane	35	B	50,8 (2")	23.37	41306	27.94	3.05	1	3
P2774.20A-60UR	Urethane	60	B	50,8 (2")	23.37	41306	27.94	3.05	1	3
P2774.20B-35UR	Urethane	35	C	50,8 (2")	49.27	41306	35.81	6.35	1	6
P2774.20B-60UR	Urethane	60	C	50,8 (2")	49.27	41306	35.81	6.35	1	6
P2774.25A-35UR	Urethane	35	B	50,8 (2")	49.27	41306	27.94	3.05	1	3
P2774.25A-60UR	Urethane	60	B	50,8 (2")	49.27	41306	27.94	3.05	1	3
P2774.20A-20NP	Neoprene	20	B	50,8 (2")	23.37	41306	27.94	3.05	1	3
P2774.20A-35NP	Neoprene	35	B	50,8 (2")	23.37	41306	27.94	3.05	1	3
P2774.20A-60NP	Neoprene	60	B	50,8 (2")	23.37	41306	27.94	3.05	1	3
P2774.20B-20NP	Neoprene	20	C	50,8 (2")	49.27	41306	35.81	6.35	1	6
P2774.20B-35NP	Neoprene	35	C	50,8 (2")	49.27	41306	35.81	6.35	1	6
P2774.20B-60NP	Neoprene	60	C	50,8 (2")	49.27	41306	35.81	6.35	1	6
P2774.25A-20NP	Neoprene	20	B	63,5 (2")	49.27	41306	27.94	3.05	1	3
P2774.25A-35NP	Neoprene	35	B	50,8 (2")	49.27	41306	27.94	3.05	1	3
P2774.25A-60NP	Neoprene	60	B	50,8 (2")	49.27	41306	27.94	3.05	1	3



Finned Roller shaft drive



Material Hand-
ling



P2776

MATERIAL HANDLING

Material

Nitrile, urethane or neoprene bonded to a steel insert. Hardness from 20-60 durometer (Shore A).

Technical Notes

Designed to be mounted onto a shaft. A

hub extends past the roller and is supplied with two set screws at 90°.

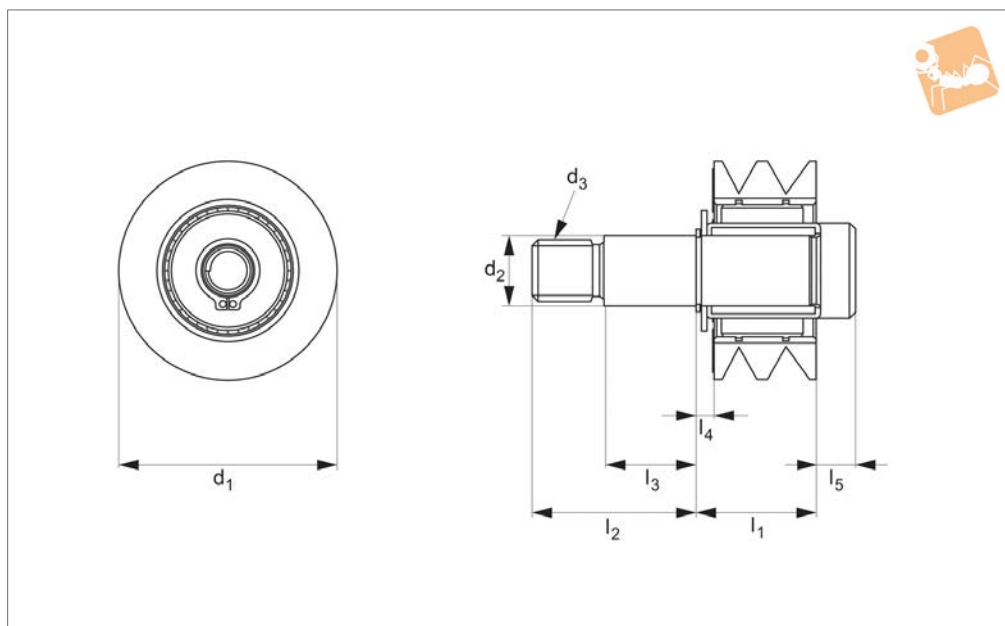
Tips

Finned rollers have grooves on the surface, creating less surface contact with the workpiece, and allowing dirt, debris and

liquid to pass.



P2778



Material

Nitrile, urethane or neoprene bonded to a steel insert. Hardness from 20-60 durometer (Shore A).

Technical Notes

A clutch bearing allows the roller to turn in only one direction. Available in left or right hand rotation (with the stud pointed

upwards, a right hand rotation turns clockwise.

Type R = right hand clutch bearing.

Type L = left hand clutch bearing.

Supplied with type I bearings, please see technical page for more information on bearings.

Tips

Finned rollers have grooves on the surface, creating less surface contact with the workpiece, and allowing dirt, debris and liquid to pass.

No. of fins:

$l_1 = 23,37$ 3 fins

$l_1 = 49,28$ 6 fins

Order No.	Material	Duro.	Type	d ₁	l ₁	d ₂ +0.05	d ₃	l ₂	l ₃	l ₄	l ₅
P2778.20A-20NI-R	Nitrile	20	R	50.80	23.37	15.77	1/2-13"	45.47	26.42	3.05	10.41
P2778.20A-35NI-R	Nitrile	35	R	50.80	23.37	15.77	1/2-13"	45.47	26.42	3.05	10.41
P2778.20A-60NI-R	Nitrile	60	R	50.80	23.37	15.77	1/2-13"	45.47	26.42	3.05	10.41
P2778.20A-20NI-L	Nitrile	20	L	50.80	23.37	15.77	1/2-13"	45.47	26.42	3.05	10.41
P2778.20A-35NI-L	Nitrile	35	L	50.80	23.37	15.77	1/2-13"	45.47	26.42	3.05	10.41
P2778.20A-60NI-L	Nitrile	60	L	50.80	23.37	15.77	1/2-13"	45.47	26.42	3.05	10.41
P2778.20B-20NI-R	Nitrile	20	R	50.80	49.28	15.77	1/2-13"	31.75	23.62	10.42	-
P2778.20B-35NI-R	Nitrile	35	R	50.80	49.28	15.77	1/2-13"	31.75	23.62	10.42	-
P2778.20B-60NI-R	Nitrile	60	R	50.80	49.28	15.77	1/2-13"	31.75	23.62	10.42	-
P2778.20B-20NI-L	Nitrile	20	L	50.80	49.28	15.77	1/2-13"	31.75	23.62	10.42	-
P2778.20B-35NI-L	Nitrile	35	L	50.80	49.28	15.77	1/2-13"	31.75	23.62	10.42	-
P2778.20B-60NI-L	Nitrile	60	L	50.80	49.28	15.77	1/2-13"	31.75	23.62	10.42	-
P2778.25A-20NI-R	Nitrile	20	R	63.50	23.37	15.77	1/2-13"	45.47	26.42	3.05	10.42
P2778.25A-35NI-R	Nitrile	35	R	63.50	23.37	15.77	1/2-13"	45.47	26.42	3.05	10.42
P2778.25A-60NI-R	Nitrile	60	R	63.50	23.37	15.77	1/2-13"	45.47	26.42	3.05	10.42
P2778.25A-20NI-L	Nitrile	20	L	63.50	23.37	15.77	1/2-13"	45.47	26.42	3.05	10.42
P2778.25A-35NI-L	Nitrile	35	L	63.50	23.37	15.77	1/2-13"	45.47	26.42	3.05	10.42
P2778.25A-60NI-L	Nitrile	60	L	63,50 (2,5")	23.37	15.77	1/2-13"	45.47	26.42	3.05	10.42
P2778.20A-35UR-R	Urethane	35	R	50.80	23.37	15.77	1/2-13"	45.47	26.42	3.05	10.41
P2778.20A-60NP-R	Urethane	60	R	50.80	23.37	15.77	1/2-13"	45.47	26.42	3.05	10.41
P2778.20A-35UR-L	Urethane	35	L	50.80	23.37	15.77	1/2-13"	45.47	26.42	3.05	10.41
P2778.20A-60NP-L	Urethane	60	L	50.80	23.37	15.77	1/2-13"	45.47	26.42	3.05	10.41
P2778.20B-35UR-R	Urethane	35	R	50.80	49.28	15.77	1/2-13"	31.75	23.62	10.42	-
P2778.20B-60UR-R	Urethane	60	R	50.80	49.28	15.77	1/2-13"	31.75	23.62	10.42	-
P2778.20B-35UR-L	Urethane	35	L	50.80	49.28	15.77	1/2-13"	31.75	23.62	10.42	-
P2778.20B-60UR-L	Urethane	60	L	50.80	49.28	15.77	1/2-13"	31.75	23.62	10.42	-
P2778.25A-35UR-R	Urethane	35	R	63.50	23.37	15.77	1/2-13"	45.47	26.42	3.05	10.42
P2778.25A-60UR-R	Urethane	60	R	63.50	23.37	15.77	1/2-13"	45.47	26.42	3.05	10.42
P2778.25A-35UR-L	Urethane	35	L	63.50	23.37	15.77	1/2-13"	45.47	26.42	3.05	10.42



Finned Roller clutch bearing

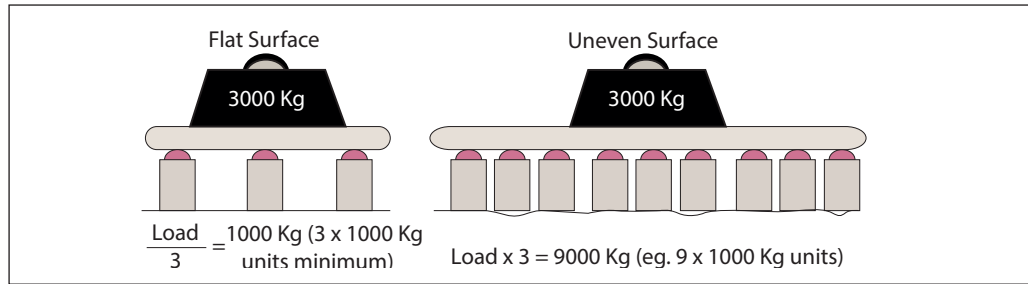


Order No.	Material	Duro.	Type	d ₁	l ₁	d ₂ +0.05	d ₃	l ₂	l ₃	l ₄	l ₅
P2778.25A-60UR-L	Urethane	60	L	63.50 (2.5")	23.37	15.77	1/2-13"	45.47	26.42	3.05	10.42
P2778.20A-20NP-R	Neoprene	20	R	50.80	23.37	15.77	1/2-13"	45.47	26.42	3.05	10.41
P2778.20A-35NP-R	Neoprene	35	R	50.80	23.37	15.77	1/2-13"	45.47	26.42	3.05	10.41
P2778.20A-60NP-R	Neoprene	60	R	50.80	23.37	15.77	1/2-13"	45.47	26.42	3.05	10.41
P2778.20A-20NP-L	Neoprene	20	L	50.80	23.37	15.77	1/2-13"	45.47	26.42	3.05	10.41
P2778.20A-35NP-L	Neoprene	35	L	50.80	23.37	15.77	1/2-13"	45.47	26.42	3.05	10.41
P2778.20A-60NP-L	Neoprene	60	L	50.80	23.37	15.77	1/2-13"	45.47	26.42	3.05	10.41
P2778.20B-20NP-R	Neoprene	20	R	50.80	49.28	15.77	1/2-13"	31.75	23.62	10.42	-
P2778.20B-35NP-R	Neoprene	35	R	50.80	49.28	15.77	1/2-13"	31.75	23.62	10.42	-
P2778.20B-60NP-R	Neoprene	60	R	50.80	49.28	15.77	1/2-13"	31.75	23.62	10.42	-
P2778.20B-20NP-L	Neoprene	20	L	50.80	49.28	15.77	1/2-13"	31.75	23.62	10.42	-
P2778.20B-35NP-L	Neoprene	35	L	50.80	49.28	15.77	1/2-13"	31.75	23.62	10.42	-
P2778.20B-60NP-L	Neoprene	60	L	50.80	49.28	15.77	1/2-13"	31.75	23.62	10.42	-
P2778.25A-20NP-R	Neoprene	20	R	63.50	23.37	15.77	1/2-13"	45.47	26.42	3.05	10.42
P2778.25A-35NP-R	Neoprene	35	R	63.50	23.37	15.77	1/2-13"	45.47	26.42	3.05	10.42
P2778.25A-60NP-R	Neoprene	60	R	63.50	23.37	15.77	1/2-13"	45.47	26.42	3.05	10.42
P2778.25A-20NP-L	Neoprene	20	L	63.50	23.37	15.77	1/2-13"	45.47	26.42	3.05	10.42
P2778.25A-35NP-L	Neoprene	35	L	63.50	23.37	15.77	1/2-13"	45.47	26.42	3.05	10.42
P2778.25A-60NP-L	Neoprene	60	L	63.50	23.37	15.77	1/2-13"	45.47	26.42	3.05	10.42

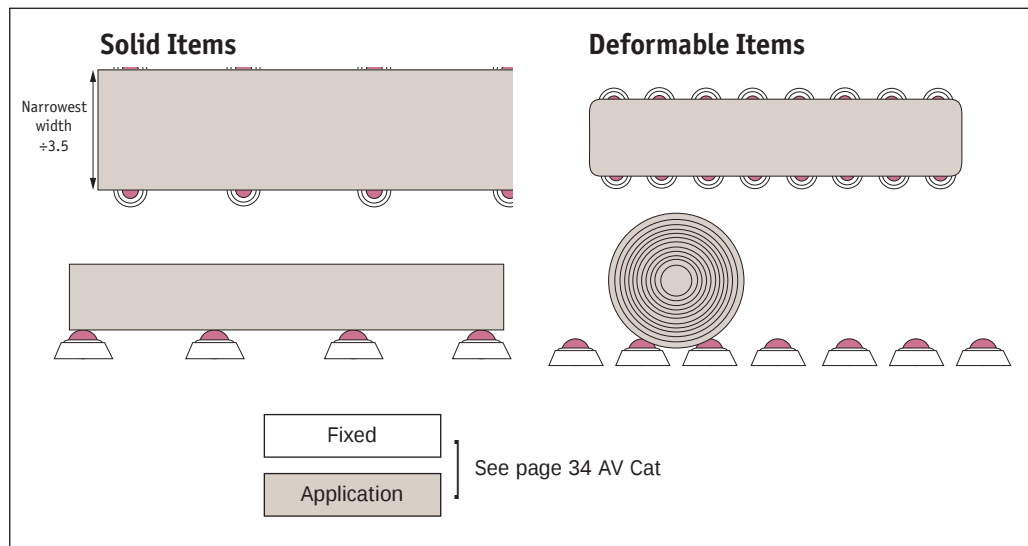
MATERIAL HANDLING



Load & Stability



Pitch & Spacing



Operating Temperature

