

CATALOG
14

Section J



SPAENAU

Fasteners Right Now[®]

CATALOG
14

CATALOG 14

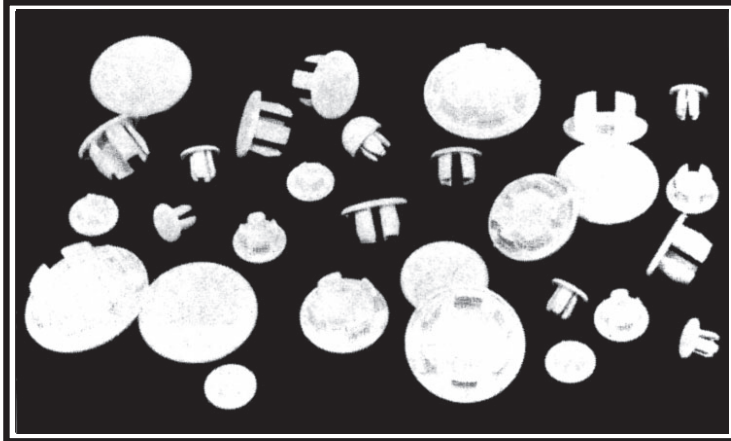
SPAENAUR

P: 1-800-265-8772 F: 1-888-252-6380 service@spenaar.com

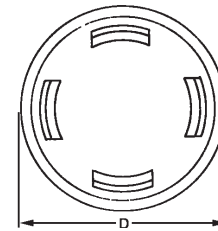
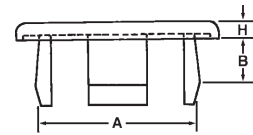
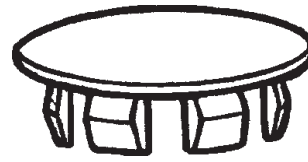
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Snap-In Hole Plugs	Inch	J2	Pouce	Bouchons enfichables
Anti-Vibration Solutions Mounts, Bumpers, Plate Mounts, Leveling Mounts, Isolators, Supports, Pads	Inch & Metric	J4	Pouce et métrique	Solutions contre les vibrations Amortisseurs, butées, supports de montage, supports de mise à niveau, isolants, supports, plaquettes
Plastic Caps & Plugs Plastic Tube Caps, Hole Plugs, Pull Tab Plugs	Inch & Metric	J26	Pouce et métrique	Capuchons et bouchons de plastique Capuchons de tubes en plastique, Bouchons, Bouchons à languette
Plastic Caps & Plugs Diesel Fuel Injector Cap, Rod-End Protective Caps, Threaded Pipe Caps, Threaded Plugs, Valve Flange Protectors	Inch	J37	Pouce	Capuchons et bouchons de plastique Capuchon d'injecteur de carburant diesel, Capuchons de protection d'extrémité de tige, Capuchons pour tuyaux filetés, Bouchons filetés, Protecteurs de bride
Decorative Screw Cover Caps Snapcaps & Pop-on Plastic Two-Piece Bolt & Screw Decorative Head Covers	Inch & Metric	J42	Pouce et métrique	Capuchons décoratifs en plastique Capuchons à pression et capuchons deux pièces pour boulons et vis en plastique avec couvercles décoratifs pour tête
Bumpers & Tips Rubber Bumpers, Plug Bumpers, Bolt & Screw Cap Bumpers, Plastic Feet, The Gripper Appliance Foot, Screw-on / Stud / Tack Bumpers, Tip & Cap Style Caps, Tube Caps	Inch	J44	Pouce	Butoirs et embouts Butées en caoutchouc, butoirs à pression, butoirs cache-boulons et cache-vis, pattes en plastique, patte pour appareil électroménager The Gripper, butées vissées et à punaise, capuchons Tip & Cap, capuchons de tubes
Suction Cup Mounts	Inch & Metric	J53	Pouce et métrique	Supports à ventouse
Flat Rubber Washers Neoprene, SBR, Natural, Nitrile, Closed-Cell Neoprene Sponge, EPDM, Silicon	Inch & Metric	J54	Pouce et métrique	Rondelles plates en caoutchouc Néoprène, SBR, naturelles, nitrile, néoprène spongieux à alvéoles vermées, EPDM, silicone
Bushings, Grommets & Stoppers Rubber Bushings, Nylon Snap Bushings, Metal Strain Relief Bushings, Rubber Push-In Grommets, Rubber Stoppers	Inch & Metric	J56	Pouce et métrique	Manchons, oeillets et butées Manchons en caoutchouc, manchons à enclenchement rapide en nylon, manchons antitraction en métal, oeillets à pression en caoutchouc, butées en caoutchouc
Boteco® Plastic Hardware Hand Knobs, Handwheels, T-Handles, Clamping Levers, Crank Handles & Bridge Handles	Inch	J68	Pouce	Quincaillerie en plastique Boteco® Poignées, molettes, poignées en «T», leviers de serrage, poignées de manivelle et poignées
Hand Knobs & Handwheels	Inch & Metric	J81	Pouce et métrique	Boutons à main et molettes
O-Ring Seals O-Ring Seals, O-Ring Splicing Kits, O-Ring Lubricant Reference Chart	Inch & Metric	J83	Pouce et métrique	Joints toriques «O-Ring» Joints toriques d'étanchéité, trousseaux d'épissage de joints toriques, tableau de référence des lubrifiants pour joints toriques
Section Index		J93 J94		Index de section



Nylon 6/6 HOLE PLUGS



PKG QTY. 100

To close unneeded chassis holes, wiring outlets, accessory openings. Use as tube-end caps, appliance feet. Nylon 6/6 resists abrasion and vibration. Tapered prongs lock into place with finger pressure, but can be removed and reused when necessary.

SPAENAUR No.		Head Style	Finish	For HOLE SIZE A		PANEL RANGE Thickness B		Head Size D (Dia.)		Head HEIGHT H	
BLACK	NATURAL			inch	(mm)	inch	(mm)	inch	(mm)	inch	(mm)
245-115	245-114	Binder	Smooth	.125	(3.18)	.031/.094	(0.79/2.39)	13/64	(5.16)	.040	(1.02)
245-117	245-116	Binder	Smooth	.150	(3.81)	.031/.094	(0.79/2.39)	1/4	(6.35)	.040	(1.02)
245-101	245-100	Binder	Smooth	.187	(4.75)	.031/.140	(0.79/3.56)	11/32	(8.74)	.040	(1.02)
245-103	245-102	Binder	Matte	.187	(4.75)	.031/.140	(0.79/3.56)	11/32	(8.74)	.040	(1.02)
245-105	245-104	Dome	Smooth	.218	(5.54)	.031/.062	(0.79/1.58)	3/8	(9.53)	.250	(6.35)
245-107	245-106	Binder	Smooth	.250	(6.35)	.031/.062	(0.79/1.58)	27/64	(10.72)	.040	(1.02)
245-109	245-108	Binder	Matte	.250	(6.35)	.031/.062	(0.79/1.58)	27/64	(10.72)	.040	(1.02)
245-111	245-110	Binder	Smooth	.312	(7.93)	.031/.140	(0.79/3.56)	29/64	(11.51)	.050	(1.27)
245-W08-1W	245-W04-1C	Binder	Matte	.312	(7.93)	.031/.140	(0.79/3.56)	29/64	(11.51)	.050	(1.27)
245-W09-1M	245-118	Binder	Smooth	.375	(9.53)	.031/.140	(0.79/3.56)	43/64	(17.07)	.062	(1.58)
245-121	245-120	Binder	Smooth	.375	(9.53)	.031/.140	(0.79/3.56)	37/64	(14.68)	.050	(1.27)
245-123	245-W01-1A	Binder	Matte	.375	(9.53)	.031/.140	(0.79/3.56)	37/64	(14.68)	.050	(1.27)
245-125	245-124	Binder	Smooth	.437	(11.10)	.031/.171	(0.79/4.34)	39/64	(15.47)	.050	(1.27)
245-H02-1K	245-126	Binder	Matte	.437	(11.10)	.031/.171	(0.79/4.34)	39/64	(15.47)	.050	(1.27)
245-129	245-128	Binder	Smooth	.500	(12.70)	.031/.140	(0.79/3.56)	43/64	(17.07)	.062	(1.58)
245-131	245-130	Binder	Matte	.500	(12.70)	.031/.140	(0.79/3.56)	43/64	(17.07)	.062	(1.58)
245-133	245-132	Binder	Smooth	.562	(14.28)	.031/.140	(0.79/3.56)	47/64	(18.64)	.062	(1.58)
245-135	245-134	Binder	Matte	.562	(14.28)	.031/.140	(0.79/3.56)	47/64	(18.64)	.062	(1.58)
245-137	245-136	Binder	Smooth	.625	(15.88)	.031/.072	(0.79/1.83)	51/64	(20.24)	.062	(1.58)
245-W03-1Y	245-138	Binder	Matte	.625	(15.88)	.031/.072	(0.79/1.83)	51/64	(20.24)	.062	(1.58)
245-141	245-140	Binder	Smooth	.687	(17.45)	.031/.109	(0.79/2.77)	57/64	(22.63)	.062	(1.58)
245-143	245-142	Binder	Matte	.687	(17.45)	.031/.109	(0.79/2.77)	57/64	(22.63)	.062	(1.58)
245-145	245-144	Binder	Smooth	.750	(19.05)	.031/.109	(0.79/2.77)	63/64	(25.00)	.062	(1.58)
245-147	245-146	Binder	Matte	.750	(19.05)	.031/.109	(0.79/2.77)	63/64	(25.00)	.062	(1.58)
245-149	245-148	Binder	Smooth	.787	(20.00)	.059/.080	(1.50/2.03)	63/64	(25.00)	.062	(1.58)
245-151	245-150	Binder	Matte	.787	(20.00)	.059/.080	(1.50/2.03)	63/64	(25.00)	.062	(1.58)
245-153	245-152	Binder	Smooth	.812	(20.63)	.031/.109	(0.79/2.77)	1-1/32	(26.19)	.062	(1.58)
245-155	245-154	Binder	Matte	.812	(20.63)	.031/.109	(0.79/2.77)	1-1/32	(26.19)	.062	(1.58)
245-157	245-156	Binder	Smooth	.875	(22.23)	.031/.109	(0.79/2.77)	1-5/64	(27.38)	.062	(1.58)
245-159	245-158	Binder	Matte	.875	(22.23)	.031/.109	(0.79/2.77)	1-5/64	(27.38)	.062	(1.58)
245-161	245-160	Binder	Smooth	1.000	(25.40)	.031/.109	(0.79/2.77)	1-7/32	(30.96)	.062	(1.58)
245-163	245-162	Binder	Matte	1.000	(25.40)	.031/.109	(0.79/2.77)	1-7/32	(30.96)	.062	(1.58)

CATALOG 14

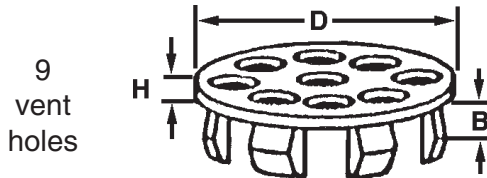
SPAENAUR

A wide selection of plastic caps, plugs, bushings, etc. are featured in SECTION J.

VENT HOLE PLUGS

Black Nylon 6/6

Head Style - Binder Finish - Matte



SPAENAUR No.	Hole Size	B Panel Thickness	D Head Size	H Head Height
315-379	.875"	.031"/.109"	1-5/64"	.062"
315-380	1.000"	.031"/.109"	1-7/32"	.062"

PKG QTY. 100

ASSORTMENT **805-642**
ASSORTIMENT

HOLE PLUGS
Smooth or Matte Finish
BLACK & NATURAL
Nylon 6/6

64 ITEMS - 860 PIECES

Furnished in Large Size, 18" x 12" x 3" Grey enamelled STEEL Drawers, with scooped bins. Drawer will fit into Slide Racks shown on page A3

Shipping Weight: **4.26 kg** (9.4 lbs.)

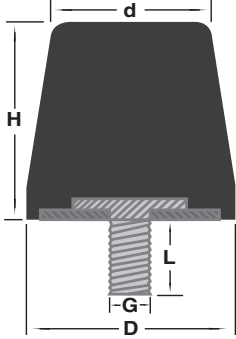


For the complete assortment contents turn to A112

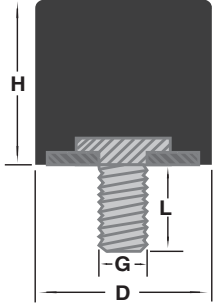


Vibration Mounts OF VULCANIZED NR (NATURAL RUBBER)
DUROMETER 50-60

THE STEEL COMPONENTS ARE ZINC OR CADMIUM PLATED,
USUALLY WITH DICHROMATE FINISH



Style No. 3
SINGLE-ENDED Tapered



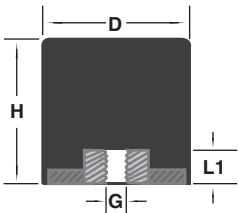
Style No. 4
SINGLE-ENDED Cylindrical

Metric Coarse Thread

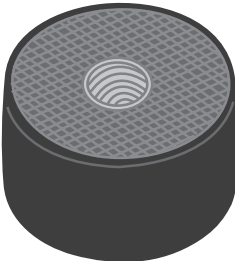
SPAENAUR No.	STYLE No.	D Diameter mm	d Dia. mm	H Height mm	G Thread	L Length mm	PKG QTY.
■316-H09-1W	3	50	38	52	M10 x 1.50	20	10
316-075	4	15	-	15	M4 x 0.70	11	20
316-H02-1A	4	20	-	20	M6 x 1.00	15	25
316-077	4	30	-		M8 x 1.25	23	10
316-079	4	30	-	30	M8 x 1.25	23	10

■ This Is Not A PEquality Product

Metric Coarse Thread



Style No. 6



SINGLE INSERT - Cylindrical

SPAENAUR No.	STYLE No.	D Diameter mm	H Height mm	G Thread	L1 Length mm	PKG QTY.
316-025	6	20	15	M6 x 1.00	6	25
316-026	6	30	30	M8 x 1.25	7	20



Metric Coarse Thread

Style No. 7

Cylindrical with TWIN INSERTS



SPAENAUR No.	STYLE No.	D Diameter mm	H Height mm	G Thread	L1 Length mm	PKG QTY.
316-057	7	10	10	M4 x 0.70	4	25
316-058	7	10	15	M4 x 0.70	4	25
316-027	7	15	15	M4 x 0.70	4	25
316-028	7	25	25	M6 x 1.00	7	20
316-059	7	25	30	M6 x 1.00	7	20
316-029	7	30	30	M8 x 1.25	7	20
316-030	7	40	40	M8 x 1.25	7	10
316-060	7	40	30	M10 x 1.50	10	10
316-061	7	50	30	M10 x 1.50	11	10
316-067	7	100	55	M16 x 2.00	16	1



ALL MOUNTS ON THIS PAGE ARE OF VULCANIZED NR
NATURAL RUBBER, IN DUROMETER 50-60

**Vibration
Mounts**

THE STEEL COMPONENTS ARE ZINC OR CADMIUM
PLATED, USUALLY WITH DICHROMATE FINISH

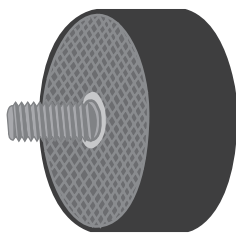
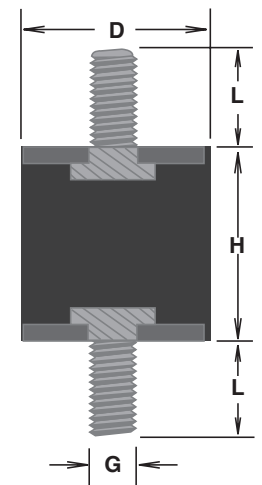
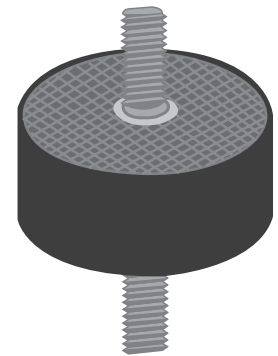
**Style No. 1
DOUBLE-ENDED**

All Dimensions in Millimetres

Metric Coarse Thread

SPAENAUR No.	D Diameter	H Height	G Thread	L Length	PKG QTY.
316-001	10	10	M4 X 0.70	10	25
■ 316-H12-1M	10	15	M4 X 0.71	10	25
316-034	15	15	M4 X 0.72	10	25
316-039	15	15	M5 X 0.80	15	25
316-003	20	20	M6 X 1.00	15	25
■ 316-H08-1K	25	10	M6 X 1.00	20	4
316-H03-2P	25	15	M6 X 1.00	20	25
316-047	25	40	M6 X 1.00	20	10
316-046	25	30	M8 X 1.25	20	10
316-005	30	20	M8 X 1.25	20	20
316-H01-1X	40	30	M8 X 1.25	23	4
316-007	50	20	M10 X 1.50	30	10
316-008	50	30	M10 X 1.50	30	10
316-051	75	40	M12 X 1.75	37	2
316-064	75	50	M12 X 1.75	37	2
316-009	75	55	M12 X 1.75	37	2
316-010	100	60	M16 X 2.00	37	1

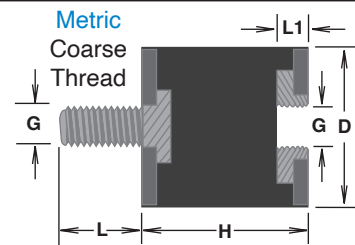
■ This Is Not A PEquality Product



**Vibration Mounts
Style No. 2
SINGLE ENDED**

Plus
Threaded Insert

All Dimensions in Millimetres

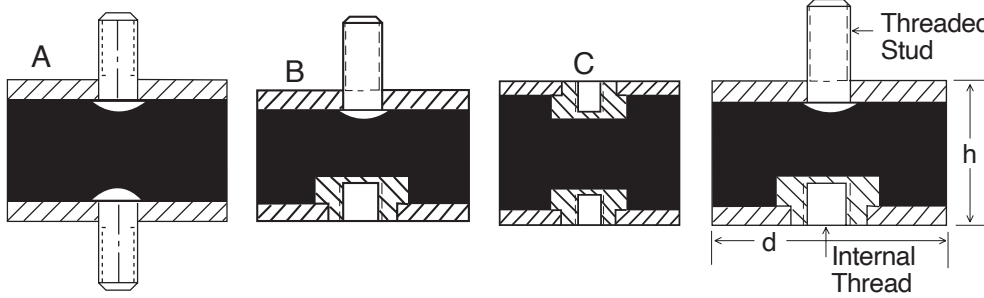


This style has
threaded insert
opposite stud end

SPAENAUR No.	D Diameter	H Height	G Thread	L Length	L1 Length	PKG QTY.
316-H10-1K	15	15	M4 x 0.70	10	4	25
316-065	20	15	M6 x 1.00	15	6	25
316-012	20	20	M6 x 1.00	15	6	25
■ 316-H07-1T	30	30	M8 x 1.25	20	7	4
316-069	40	30	M8 x 1.25	20	7	10
316-052	50	20	M10 x 1.50	30	11	10
316-015	50	40	M10 x 1.50	30	11	4
316-054	75	40	M12 x 1.75	37	13	2
316-016	75	50	M12 x 1.75	37	13	2
316-056	75	55	M12 x 1.75	37	13	2

■ This Is Not A PEquality Product

External and Internal Threads are Inch U.N.C.



Materials

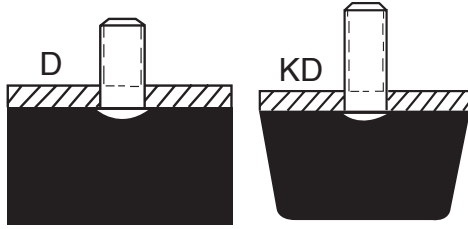
Black Vulcanized
Natural Rubber
57 Durometer

Steel,
Zinc Plated
Mountings

TYPE	SPAENAUR No.	Thread x Approx. Length		Dim. in inches d x h	Dim. in mm d x h	Load (lbs.)	Shear (lbs.)	PKG QTY.
		Stud	Internal					
A	315-G72-1Y	8-32 x 13/32	—	3/8 x 3/8"	10 x 10	8	2	4
	315-G73-1C	8-32 x 13/32"	—	9/16 x 5/16"	15 x 8	35	12	4
	315-203	8-32 x 13/32"	—	9/16 x 9/16"	15 x 15	9	3-1/2	4
	315-G75-1T	1/4-20 x 19/32"	—	25/32 x 9/16"	20 x 15	37	12	4
	315-G76-1T	1/4-20 x 19/32"	—	25/32 x 25/32"	20 x 20	32	10	4
	315-H29-1N	1/4-20 x 5/8"	—	1 x 3/4"	25 x 19	56	19	4
	315-H06-1T	1/4-20 x 23/32"	—	1 x 25/32"	25 x 20	56	19	4
	315-G77-1W	5/16-18 x 13/16"	—	1-3/16 x 1-3/16"	30 x 30	69	23	1
	315-G78-2M	5/16-18 x 29/32"	—	1-9/16 x 1-3/16"	40 x 30	137	46	1
	315-G79-1X	5/16-18 x 29/32"	—	1-9/16 x 1-9/16"	40 x 40	121	40	1
	315-H07-1K	3/8-16 x 1-3/32"	—	1-31/32 x 1-3/16"	50 x 30	251	84	1
	315-G80-1M	3/8-16 x 1-3/32"	—	1-31/32 x 2-5/32"	50 x 55	189	63	1
	315-G81-1X	1/2-13 x 1-1/2"	—	2-15/16 x 1-31/32"	75 x 50	506	168	1
	315-G82-1A	1/2-13 x 1-1/2"	—	2-15/16 x 2-11/32"	75 x 60	462	154	1
	315-G83-1P	5/8-11 x 1-13/16"	—	3-7/8 x 2-5/32"	100 x 55	1015	339	1
315-G84-1Y	5/8-11 x 1-13/16"	—	3-7/8 x 2-11/32"	100 x 60	957	319	1	
B	▲315-G38-1K	8-32 x 13/32"	8-32 x .150"	3/8 x 3/8"	10 x 10	6-1/2	2	10
	315-217	8-32 x 13/32"	8-32 x .150"	9/16 x 9/16"	15 x 15	9	3-1/2	10
	315-H04-1C	1/4-20 x 19/32"	1/4-20 x .250"	25/32 x 9/16"	20 x 15	50	17	10
	▲315-219	1/4-20 x 19/32"	1/4-20 x .250"	25/32 x 25/32"	20 x 20	20	6-1/2	10
	315-H30-1C	1/4-20 x 23/32"	1/4-20 x .250"	1 x 25/32"	25 x 20	59	20	10
	315-G89-1W	5/16-18 x 13/16"	5/16-18 x .310"	1-3/16 x 1-3/16"	30 x 30	72	24	10
	315-247	5/16-18 x 0.88"	5/16-18 x .310"	1-3/16 x 1-3/16"	30 x 30	72	24	4
	315-G90-1K	5/16-18 x 29/32"	5/16-18 x .310"	1-9/16 x 1-3/16"	40 x 30	144	48	4
	315-223	5/16-18 x 29/32"	5/16-18 x .310"	1-9/16 x 1-9/16"	40 x 40	66	33	4
	315-H08-1W	3/8-16 x 1-3/32"	3/8-16 x .375"	1-31/32 x 1-3/16"	50 x 30	282	94	4
	315-G92-1M	3/8-16 x 1-3/32"	3/8-16 x .375"	1-31/32 x 2-5/32"	50 x 55	189	63	4
	315-G93-1X	1/2-13 x 1-5/8"	1/2-13 x .500"	2-15/16 x 1-31/32"	75 x 50	528	178	1
	315-G94-1A	1/2-13 x 1-7/16"	1/2-13 x .500"	2-15/16 x 2-11/32"	75 x 60	475	163	1
	315-G95-1P	5/8-11 x 1-13/16"	5/8-11 x .560"	3-7/8 x 2-5/32"	100 x 55	1077	359	1
	315-229	5/8-11 x 1-13/16"	5/8-11 x .560"	3-7/8 x 2-11/32"	100 x 60	441	165-1/2	1
C	▲*315-230	—	8-32 x .125"	3/8 x 3/8"	10 x 10	4	1	10
	▲315-G98-1N	—	1/4-20 x .250"	25/32 x 25/32"	20 x 20	45	15	10
	315-G99-1T	—	1/4-20 x .250"	1 x 25/32"	25 x 20	64	21	4
	315-233	—	5/16-18 x .310"	1-3/16 x 1-3/16"	30 x 30	46-1/2	20	10
	315-H02-1P	—	3/8-16 x .375"	1-31/32 x 1-3/16"	50 x 30	333	111	4
315-H03-1Y	—	1/2-13 x .500"	2-15/16 x 2-11/32"	75 x 60	490	163	1	

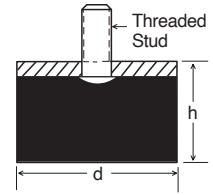
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External and Internal Threads are Inch U.N.C.



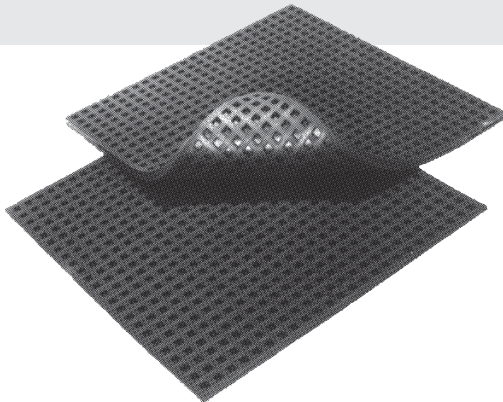
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Materials
 Black Vulcanized Natural Rubber
57 Durometer
 Steel, Zinc Plated Mountings



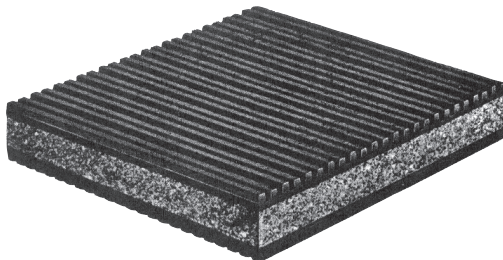
TYPE	SPAENAUR No.	Thread x Approx. Length Stud	Dim. in inches d x h	Dim. in mm d x h	Load (lbs.)	PKG QTY.
D	315-G44-1A	8-32 x 13/32"	3/8 x 3/8"	10 x 10	7	10
	315-H10-2W	1/4-20 x 19/32"	25/32 x 15/32"	20 x 12.5	37	10
	315-238	1/4-20 x 23/32"	1 x 25/32"	25 x 20	33	4
	315-H12-1X	5/16-18 x 13/16"	1-3/16 x 11/16"	30 x 17	33	1
	315-H13-2A	5/16-18 x 29/32"	1-9/16 x 1-3/32"	40 x 28	137	10
	315-H14-1P	3/8-16 x 1-3/32"	1-31/32 x 13/16"	50 x 21	304	4
	315-H15-1Y	1/2-13 x 1-5/8"	2-15/16 x 1"	75 x 25	811	1
KD	315-H16-1C	1/4-20 x 23/32"	1 x 11/16"	25 x 17	33	10
	315-H09-1M	3/8-16 x 1-3/32"	1-31/32 x 23/32"	50 x 18	282	4
	315-243	5/8-11 x 1-13/16"	4-29/32 x 1-3/4"	125 x 45	661-1/2	1

For more Anti-Vibration Solutions see Page J25



ANTI-VIBRATION NEOPRENE PADS

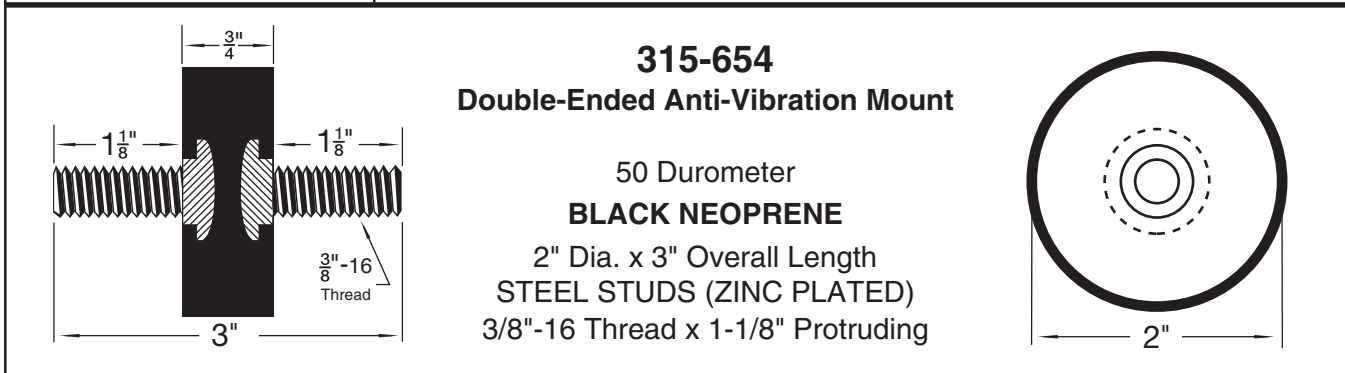
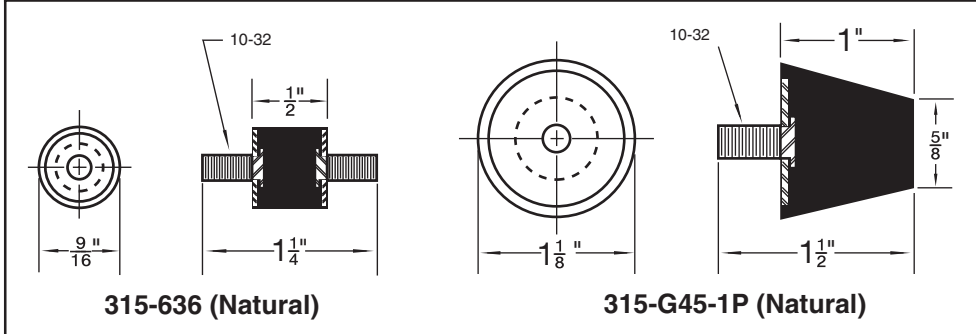
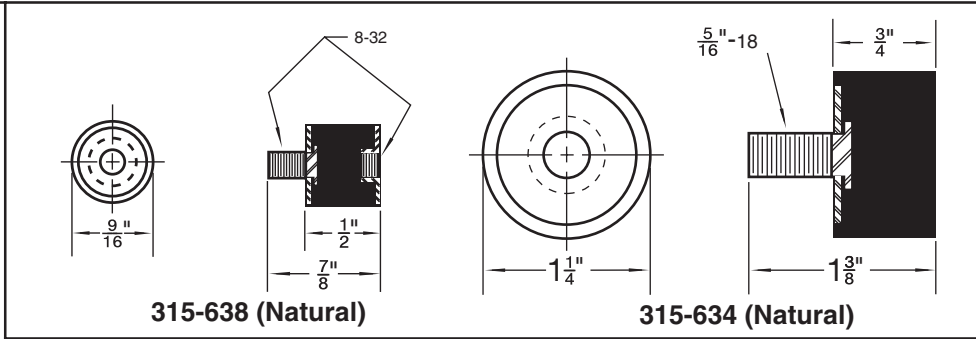
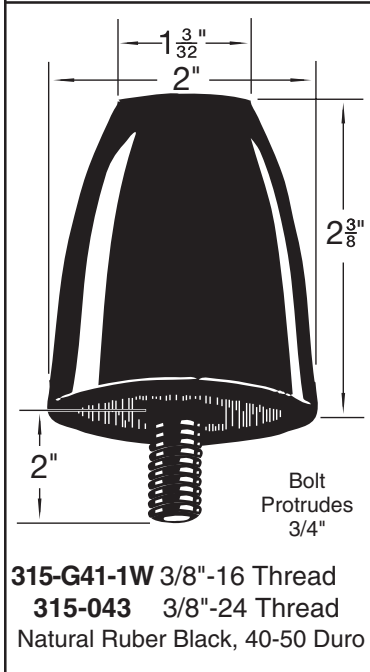
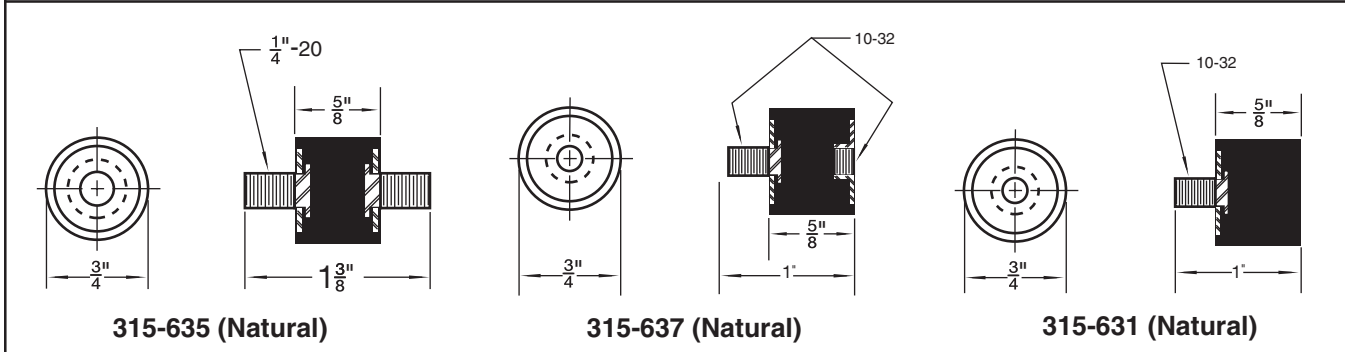
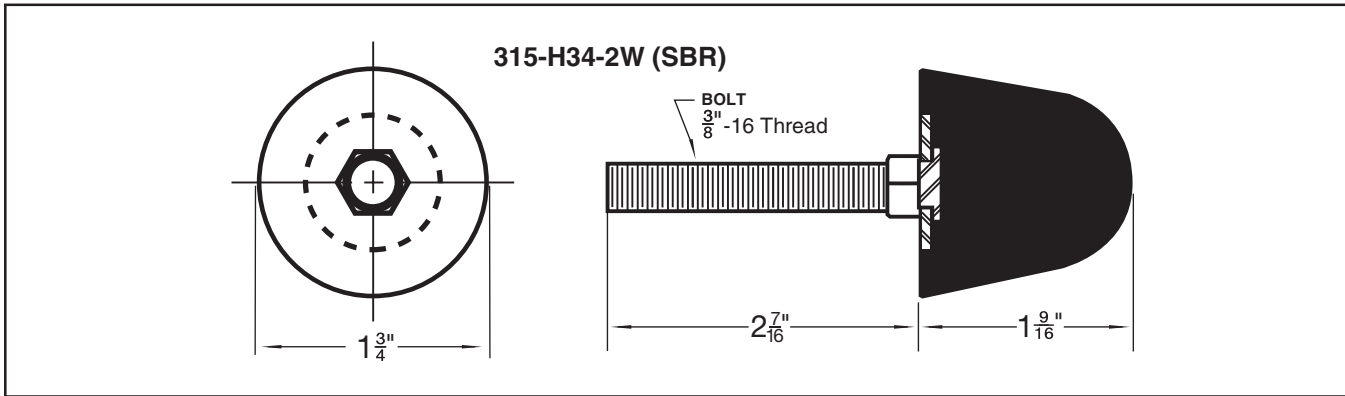
FASTER EASIER INSTALLATION. Simply lift the machine to be mounted and slide the pads under each leg. The waffle moulded design allows material expansion and highest deflection without loss of stability, maximum resilience and minimum of creep, providing firm footing to both floor and equipment.



PROLONGS MACHINE LIFE / DAMPENS VIBRATION REDUCES MAINTENANCE COST

SPAENAUR Anti-Vibration Pads are available in a neoprene ribbed pad with a 1/2" cork centre. These pads are made from a high quality neoprene elastomer, compounded with excellent resistance to aging, compression set, water and oil.

Additional vibration isolation is obtained with both high and low weight loads by alternate rib height construction. Recommended maximum loading capacity of 50 PSI.



CATALOG 14

SPAENAUR



SPAENAUR

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VIBRA-TITE[®] THREADLOCKERS
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Products you can rely on

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From ND INDUSTRIES INC.

Pg. C218

Pour la version française, voir la page suivante

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Répondez à vos besoins de verrouillage,
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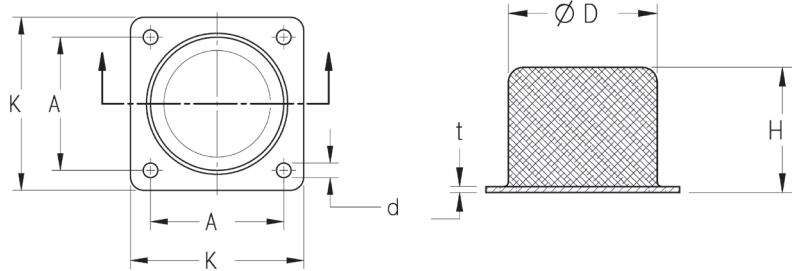
For the English version, see previous page

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IMPACT BUMPERS

Applications

- Railroad
- Railroad Wagons
- Light & Heavy Construction Equipment
- Construction Cranes
- Overhead Cranes
- Lifting Cranes



CHARACTERISTICS AND CAPABILITIES

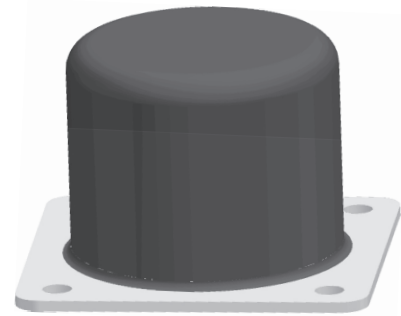
Shock absorption: Impact Bumpers will absorb small and large impacts to protect building structures, frames and equipment. The rubber is developed to ensure to absorb the energy created by the impact.

IMPACT BUMPERS (ADVANCED DESIGN)

Design: The design of the Impact Bumpers are developed to absorb shock and forces in compression. The 4-hole metal baseplate is advantageous for easy installation and quick replacements.

Load Capacity: Standard sizes in different rubber hardness scales are available for most application in a range from **6 kN** (1,350 lbs) and up to **207 kN** (46,500 lbs) load.

Maintenance Free and Long Term Durability: The special designed standard rubber compound is developed for high impacts for static applications. Special developed compounds for custom applications are available upon request.



Spaenaur No.	Diameter x Height mm (Inch) (D) x (H)	Hole Separation mm (Inch) (A)	Plate Size mm (Inch) (K)	Thickness mm (Inch) (t)	Hole Dia. mm (Inch) (d)	Quality		Max. Static Compression Force (vertical)	
						ShoreA Duro	Elastomer	kN	lbs
314-F41-2C	50 x 43	50	70	3	7	57	NR	8	1798
	(1.97) x (1.69)	(1.97)	(2.76)	(.12)	(.28)				
314-F46-1M	75 x 63	75	100	3	9	57	NR	20	4496
	(2.95) x (2.48)	(2.95)	(3.94)	(.12)	(.35)				
314-F42-2N	100 x 84	100	130	4	11	57	NR	41	9217
	(3.94) x (3.31)	(3.94)	(5.12)	(.16)	(.43)				
314-F47-1X	150 x 126	150	185	3	9	57	NR	90	20233
	(5.91) x (4.96)	(5.91)	(7.28)	(.12)	(.35)				
314-F37-2P	100 x 84	200	130	4	11	57	NR	180	40466
	(3.94) x (3.31)	(7.874)	(5.12)	(.16)	(.43)				

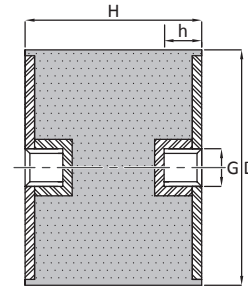
CYLINDRICAL MOUNTS

Cylindrical Mounts are a low cost solution to reducing vibration and shock. They can be used in either Compression or Shear or a combination, and are available with various thread configurations.

Applications:

- Combustion Engines
- General Industrial Machinery
- Generating Sets
- Construction and Agricultural Equipment
- Instruments
- Transit Cases and Shock Packaging

Operating Temperature Range **-35° to +70°C.**



* Threads not subject to gauging

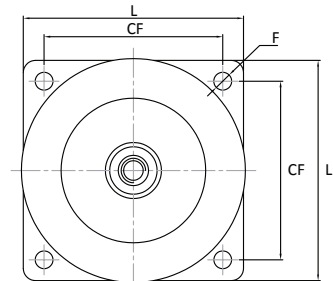
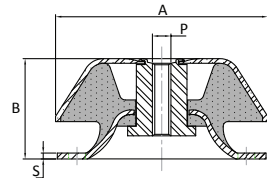
Hardness								
A 40° IRH SOFT <small>(Green or Plated Plates our Option)</small>	B 60° IRH MEDIUM <small>(Green or Plated Plates our Option)</small>	Dimensions in Millimeters			*G Thread (Coarse)	Approx Weight kg	Compression Load (in N) Hardness	
Spaenaur No.	Spaenaur No.	D	H	h			"A"	"B"
314-F06-1K	314-F07-1W	20	20	6	M6	0.02	112	238
314-F08-1M	314-F50-1A	20	30	6	M6	0.024	104	226
314-F36-1A	314-F11-1X	30	28	8	M8	0.046	256	544
-	314-F13-1P	30	36	8	M8	0.056	241	521
314-F52-1Y	314-F15-1C	50	36	10	M10	0.15	774	1603
314-F53-1C	-	50	42	10	M10	0.163	726	1533
314-F17-1T	314-F18-1K	50	48	10	M10	0.18	697	1490
314-F19-1W	314-F20-1K	75	36	12	M12	0.346	2247	4363
314-F35-1X	314-F54-1N	75	42	12	M12	0.377	1987	3975
314-F55-1T	314-F24-1A	75	48	12	M12	0.41	1828	3738
314-F56-1K	314-F26-1Y	100	42	16	M16	0.735	4750	8321
314-F27-1C	-	100	48	16	M16	0.78	3750	7573
314-F58-1M	314-F30-1N	100	54	16	M16	0.84	3250	7083

PKG QTY. 1

CAPTIVE TRANSIT MOUNTS - SQUARE

A universal mounting, popular in a wide range of applications. Cost Effective, High Performing and Easy to Install. The rubber is used in shear compression providing optimum performance and offers vibration reduction of up to 95% in all axis. The metal top cap provides protection from contamination such as Oil and Fuel. Load Ratings from 20kg to 5,000kg.

Captive Transit Mounts are designed with an integral overload stop to control movement of the mounted equipment, during transit, and also provide a failsafe arrangement to control shock loads. Suitable for both Mobile and Static applications.



Advantages:

- Failsafe Design - Ideal for Mobile Equipment
- High Performance Vibration Reduction
- Easy to Install
- Protection from Contamination

Applications:

- Generating Sets
- Diesel Engines
- Marine Engines
- Construction and Plant Equipment
- Pumps and Compressors
- Industrial & Commercial Vehicles

Operating Temperature Range **-35° to +70°C.**

Hardness			Dimensions in Millimeters						
40 Shore	45 Shore	60 Shore	A	B	P	F	CF	L	S
Spaenaur No.	Spaenaur No.	Spaenaur No.							
314-F74-1A	-	314-F43-2T	162	59	M20	14.5	140	170	4
-	314-F75-1P	314-F76-1Y	180	66	M20	14.5	149 - 163	192	5
314-F83-1W	-	314-F84-1M	183	86	M20	14.5	146	180	5
-	314-F85-1X	314-F86-1A	220	105	M24	17.5	180	220	6

PKG QTY. 1

CAPTIVE TRANSIT MOUNTS - CYLINDRICAL

A universal mounting, popular in a wide range of applications. Cost Effective, High Performing and Easy to Install. The rubber is used in shear compression providing optimum performance and offers vibration reduction of up to 95% in all axis. The metal top cap provides protection from contamination such as Oil and Fuel. Load Ratings from 20kg to 5,000kg.

Captive Transit Mounts are designed with an integral overload stop to control movement of the mounted equipment, during transit, and also provide a failsafe arrangement to control shock loads. Suitable for both Mobile and Static applications.

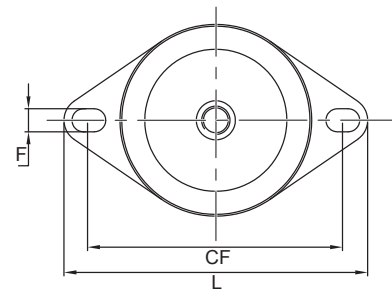
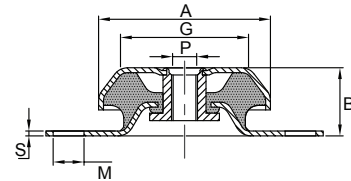
Advantages:

- Failsafe Design - Ideal for Mobile Equipment
- High Performance Vibration Reduction
- Easy to Install
- Protection from Contamination

Applications:

- Generating Sets
- Diesel Engines
- Marine Engines
- Construction and Plant Equipment
- Pumps and Compressors
- Industrial & Commercial Vehicles

Operating Temperature Range -35° to +70°C.



Hardness			Dimensions in Millimeters							
40 Shore	45 Shore	60 Shore	A	B	P	F x M	CF	G	L	S
Spaenaur No.	Spaenaur No.	Spaenaur No.								
-	-	314-G08-1C	64	34	M12	9.5ø	76	47	93	2.5
314-F77-1C	-	314-F48-1A	63	35	M10 / M12	9 x 14	76 - 90	50	110	2.5
-	314-F64-1Y	314-F65-1C	77	30	M10 / M12	9ø	108 - 110	60	135	3
314-F78-1M	-	314-F79-1T	83	35	M10 / M12	11ø	108 - 110	65	135	3
314-F66-1N	-	314-F67-1T	93	35	M10 / M12	10ø	122 - 124	70	144	2.5
-	314-F68-1K	314-F69-1W	106	38	M12 / M16	12.5 x 19	138-146	80	171	4
314-F02-2Y	-	314-F80-1N	106	42	M12 / M16	12.5 x 19	138-146	80	171	4
-	314-F70-1K	314-F71-1W	121	42	M12 / M16	13.5ø	150 - 163	92	190	4
314-F72-1M	-	314-F73-1X	155	48	M16	14 x 11	176-188	120	216	4
314-F81-1T	-	314-F82-1K	155	53	M16	14 x 11	176-188	120	216	4

PKG QTY. 1

FLANGED MOUNTINGS

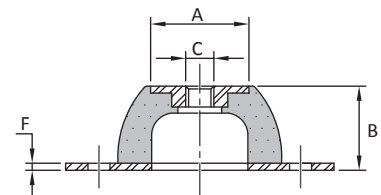
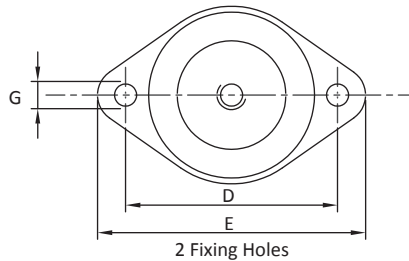
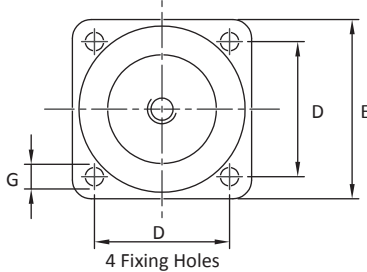
Flanged Mountings give high levels of deflection, providing excellent levels of vibration reduction and shock absorption both in the vertical and horizontal planes. They are particularly suited to isolating slow speed equipment.

Advantages:

- Ideal for Slow Speed Equipment
- Easy to Install
- Low Cost
- Vibration Isolation up to 95%

Applications:

- Pumps
- Fans
- Compressors
- Vibratory Screens
- Shock Packaging



Spaenaur No.	Shore	kg	mm	Dimensions in Millimeters							
				Fixing Holes	A	B	C	D	E	F	G
314-F87-1P	40	20	4.5	2	33	25	M8/M10	66 – 73	85	2	8 x 12
314-F88-1Y	60	40	4.5								
314-F89-1C	40	38	5	2	45	35	M10	92	114	2	10
314-F49-1P	60	69	4.8								
314-F90-1Y	40	60	7	2	53	40	M10	110	136	2	11.5
314-F91-1C	60	100	6.5								
314-F92-1N	40	130	10	2	58	45	M10	124	151	3	11.5
314-F93-1T	60	220	9								
314-F94-1K	40	270	14.5	4	70	63	M12	120	150	3	14.5
314-F95-1W	60	540	13								
314-F96-1M	40	375	17	4	100	85	M16	160	200	4	14.5
314-F97-1X	60	750	15.5								
314-F99-1P	60	2300	41.5	4	186	160	M24	250	310	6	18

PKG QTY. 1

SW MOUNTINGS

SW mountings are ideal for Heavy Duty Applications, commonly used in the Mining, Quarrying and Construction Industries.

The mountings consist of a High Dynamic Rubber Compound sandwiched between multiple steel interleaf plates. This design allows the mountings to withstand large compressive forces with minimum deformation, whilst providing a relatively low stiffness in the shear direction.

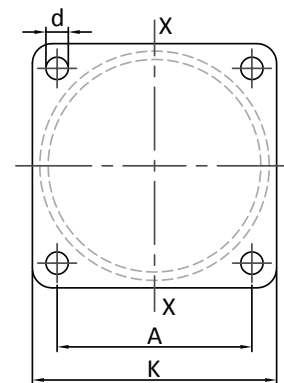
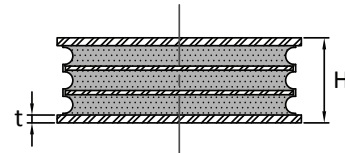
The combination of Low Height, High Vertical Stiffness and Low Shear Stiffness provides a universal, high performance mounting with uses in many heavy duty engineering applications.

Advantages:

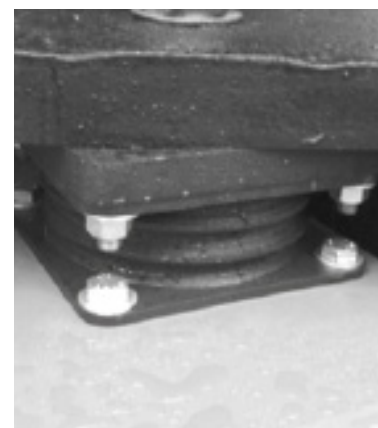
- High Compressive Stiffness
- Low Shear Stiffness
- Low Height
- High Dynamic Rubber Compound

Applications:

- Vibratory Screens & Graders
- Crushing Equipment
- Hoppers & Feeders
- Mining & Quarry Equipment
- Construction Machines



Spaenaur No.	Shore	Max kg	Dimensions in Millimeters				
			A	K	H	d	t
314-F98-1A	40	2250	118	148	52	13.5	5
314-F01-2P	60	4500					
314-G01-1K	40	3750	136	166	63	13.5	6
314-G02-1W	60	7500					
314-G03-1M	40	6,000	184	220	82	17	8
314-G05-1A	60	12,000					



PKG QTY. 1

J

SUSPENDED MOUNTS

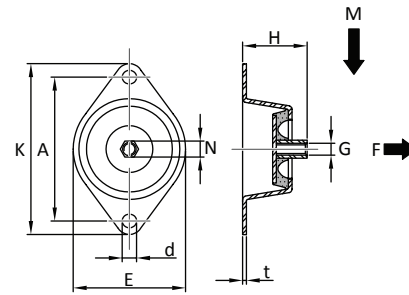
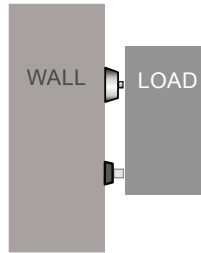
The Suspended Mountings are ideal for hanging or suspending equipment from walls, vertical surfaces, ceilings or supporting structures. The HNG Upper is used to accommodate tensile mounted loads at the top fixing of the equipment, whilst the HNG Lower is used to accommodate the compressive loads at the bottom of the equipment.

Advantages:

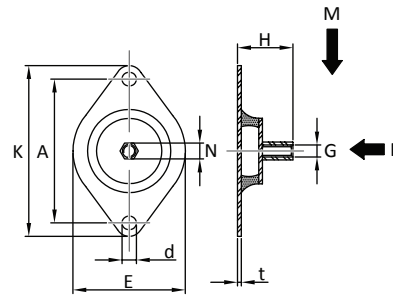
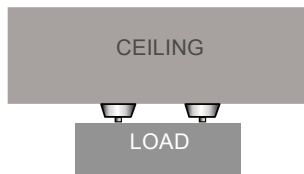
- Fail Safe Design
- Easy to Install
- Suspends from Ceilings & Walls

Applications:

- HVAC
- Ducting and Pipework
- Instrument Cabinets
- Control panels



HNG-upper



HNG-lower

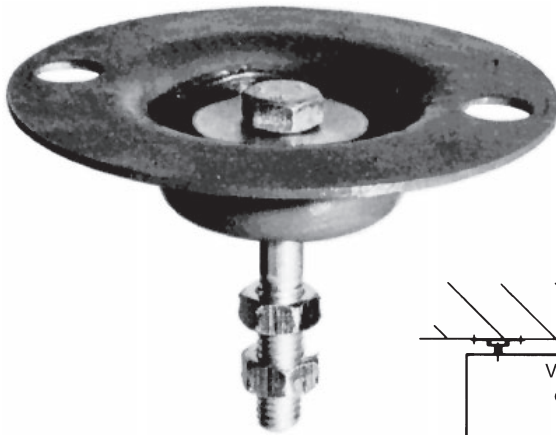
Spaenaur No.	Shore	Type	M - Max		F - Max		Dimensions in Millimeters							
			kg	mm	kg	mm	E	K	A	H	d	N	t	G
314-G06-1P	40	HNG-upper	14	25	30	70	75	114	96	33	9	15	2.5	M8
314-F03-2C	60													
314-G07-1Y	40	HNG-lower	14	25	30	70	75	114	96	33	9	15	2.5	M8
314-F04-2N	60													

PKG QTY. 1

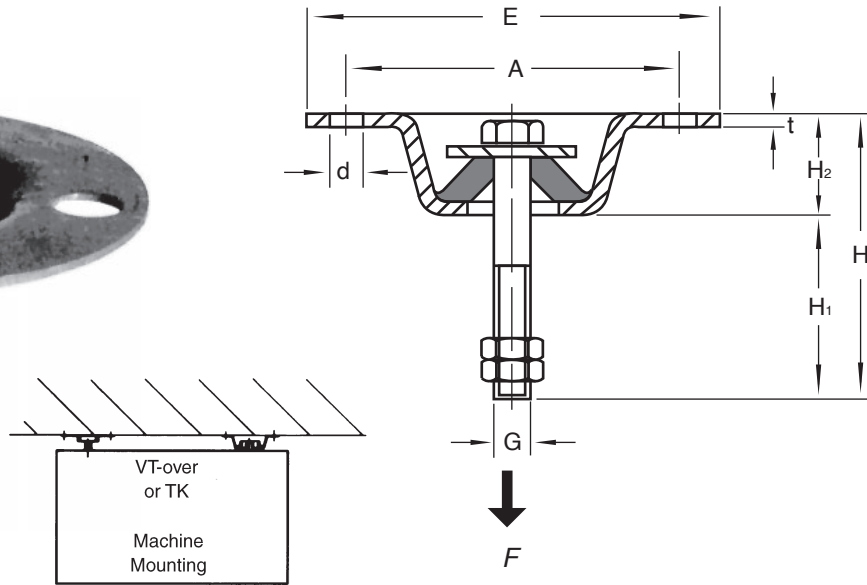
CATALOG 14.08 SPAENAUR

Natural Rubber & Steel

MOUNT



Novibra type TK



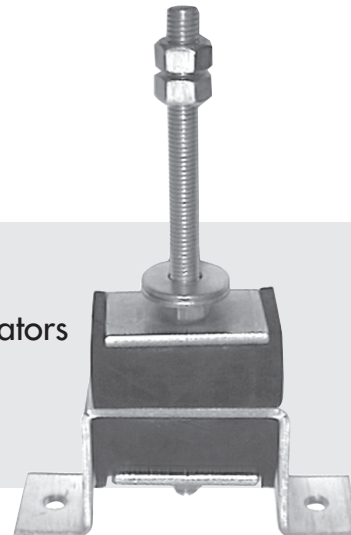
Operating Temperature Range
-35° to +70°C.

The design of Novibra mounting type TK makes it specifically suitable for ceiling installation. Its function is basically identical to HNG Upper (shown on previous page), but is intended for lighter load applications.

Hardness A 40° IRH SOFT (Green) Spaenaur No.	PKG QTY. 1										F Max. Load (in kg) A B	
	Novibra Type	DIMENSIONS in Millimetres								Approx. Weight kg		
		E	A	H	H1	H2	d	t	G			
314-107	TK	58	46	12	22	12	7	1	M5	.036	2	5

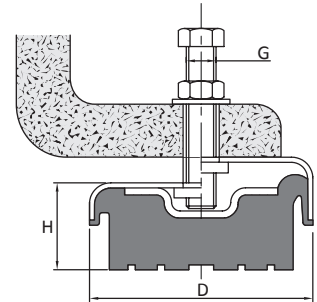


For Mago®-Suspend Isolators
see Page J24



ADJUSTABLE LEVELLING FEET

Adjustable Levelling Feet offer a low cost way of levelling most types of machinery. Widely used in various industrial applications where machines or equipment require a stable base that is also adjustable. Available in a number of different load capacities these levelling feet also provide a degree of vibration and noise reduction.



Spaenaur No.	Type of Mounting	Dimensions in Millimeters			OVERALL SCREW LENGTH	G THREAD (Metric Coarse)	Max. Load (in kg)
		D	H HEIGHT RANGE				
			Min.	Max			
314-109	TF 250	69	23	Leveling is possible along whole length of screw	100 mm	M12 x 1.75	250
314-110	TF 600	81	25		100 mm	M12 x 1.75	600
314-111	TF 1200	108	29		100 mm	M16 x 2.00	1200
314-112	TF 3000	151	35		120 mm	M20 x 2.50	3000
314-113	TF 4000	170	38		120 mm	M20 x 2.50	4000
314-114	TF 6000	205	44		150 mm	M24 x 3.00	6000

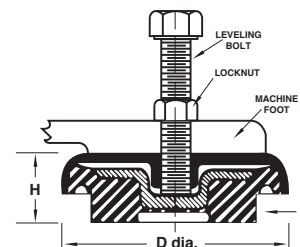
PKG QTY. 1

REDUCE NOISE, CONTROL VIBRATION

Max. Load (in kg)	General Workshop Machines	TYPE OF MACHINE Presses and Punches Number of strokes per minute			
		1-125	126-175	176-225	226-275
		250	-250	25-125	20-100
600	251-600	126-300	101-240	86-200	61-150
1200	601-1200	301-600	241-480	201-400	151-300
3000	1201-3000	601-2400	481-1600	401-1000	301-750
4000	3001-4000	2401-3200	1601-2100	1001-1300	751-1000
6000	4001-6000	3201-4800	2101-3200	1301-2000	1001-1500

Loading range per mount (kg)

Spaenaur No.	MIN LOAD	MAX LOAD	BOLT SIZE & LENGTH	DIMENSIONS		PKG QTY.
				D	H	
314-004	300 lb.	1000 lb.	1/2"-13 x 5"	4-3/4"	1-1/2"	1
314-005	500 lb.	45000 lb.	3/4"-10 x 5"	6-1/4"	1-5/8"	



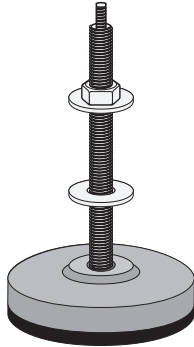
(Max.) height adjustments is 1/2". Use blocks or shims for more adjustment.

Height dimensions indicate free height of mount under no load.

NATURAL FREQUENCY IS APPROXIMATELY 12 HERTZ AT MAXIMUM LOAD.

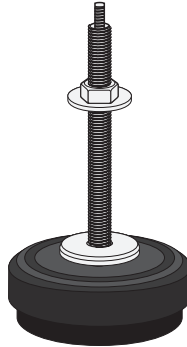
LEVELING MOUNTS

314-G13-1K
314-G14-1W
314-G15-1M



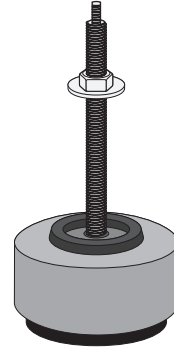
Bolt pivots on top of metal-covered Neoprene base. Not threaded into base.

314-205



Bolt is threaded only into Nitrile encased washer at top of base.

314-G16-1X
314-G17-1A



Hollow base encloses Neoprene insulated thread-receiver.

Spaenaur No.	MAX LOAD in LBS.		LEVEL ADJUSTMENT (Above loaded hgt.)	LEVELING STUD SIZE	MOUNT BASE Size	Base Free Height Under NO LOAD	Finish	Net Weight kg
	Non-Impact Machinery	Impact Machinery						
314-G13-1K	500	350	1"	1/2"-13 x 6"	4" dia.	1"	Grey	0.9
314-G14-1W	1000	700	1"	1/2"-13 x 6"	4" dia.	1"	Grey	0.9
314-G15-1M	2000	1400	1"	5/8"-11 x 8"	4" dia.	1"	Yellow	0.9
314-G16-1X	1500	1000	1/2"	1/2"-13 x 6"	3-1/2" dia.	1-7/8"	Zinc Pltd.	1.25
314-G17-1A	4500	3000	1/2"	5/8"-11 x 8"	5-1/2" dia.	2-1/4"	Zinc Pltd.	3.2
314-205	8000	5000	1/2"	5/8"-11 x 8"	5-3/4" dia.	2"	Black	2.3

More Glides & Levelers on F5

PKG QTY. 1

TWO PIECE MOUNTS

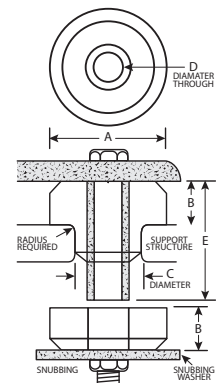
Natural Rubber 68 Durometer. This mount consists of two pieces. One piece fitting into the other as shown in diagram. Should be used with a snubbing washer. Washer and Fastener not included.

Applications:

- Off-the-road Equipment
- Trucks
- Cars
- Construction Equipment
- Radiators



Spaenaur No.	A	B	C	D	E	Recom. Support Structure Thickness	Recom. Support Structure Hole Dia.	Axial Load Max. (lbs.)
314-F32-1K	1.87	0.78	1.28	0.52	1.96	0.5	1.25	400
314-F33-1W	2.52	0.9	1.55	0.65	2.45	0.875	1.5	500
314-F34-1M	3.5	1	2.28	0.94	2.88	1.125	2.25	1,100

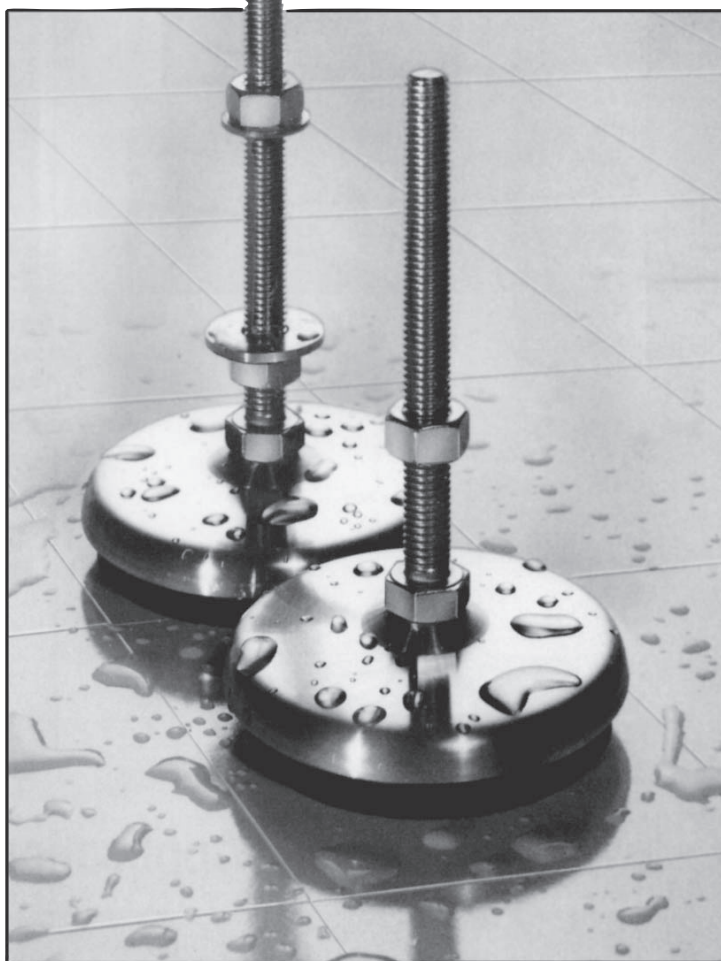


PKG QTY. 1

Stainless Steel Leveling Mounts

*For industries
requiring stringent
hygienic standards*

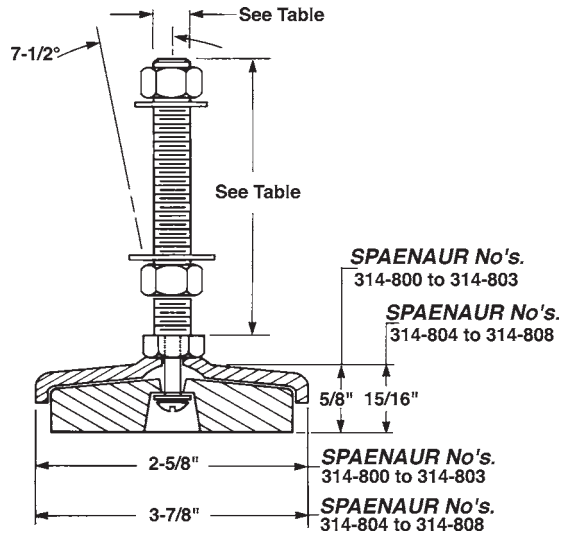
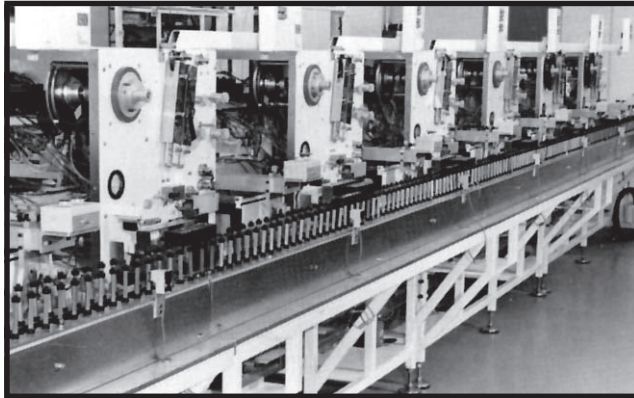
- Food
- Dairy
- Beverage
- Chemical
- Pharmaceutical



Stainless Steel Machine Mounts have no hidden pockets where dirt and moisture can collect. They are designed for industries where equipment is constantly being cleaned with strong chemical agents in order to maintain a high standard of hygiene or for applications where corrosion of standard steel leveling mounts may be a problem.

- Fast and precise leveling of machinery and equipment
- Compensate for pitched and uneven floors
- Rugged, creep-free, noise-deadening
- Reduce shock and vibration
- Simple, fast relocation
- Easy to maintain a high hygienic standard
- Simple to retrofit

STAINLESS STEEL LEVELING MOUNTS



Housing and hardware of Type 18-8 Stainless Steel with Neoprene rubber pad.

Note: One nut and one washer included with each mount.

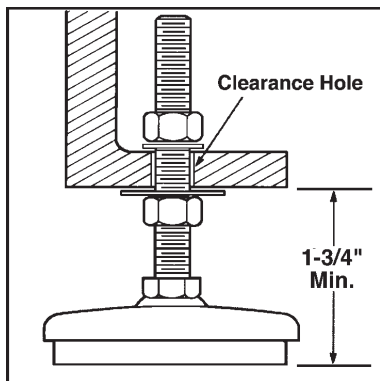
To calculate load per mount:

$$\frac{\text{Total weight of equipment}}{\text{Number of mounts}} = \text{lbs. per mount}$$

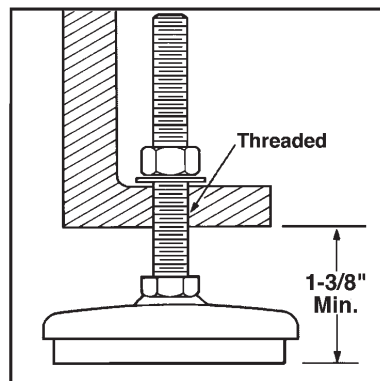
PKG QTY. 1

Load Range	50-250 lbs.	200-500 lbs.	400-1000 lbs.	900-2000 lbs.
Mount Dia.	2-5/8"	2-5/8"	3-7/8"	3-7/8"
Pad Hardness	60 Shore A	80 Shore A	60 Shore A	80 Shore A
Leveling Bolt	ORDER BY SPAENAUR NUMBERS LISTED BELOW			
1/2"-13 x 2"	314-800	314-802	—	—
1/2"-13 x 4"	314-801	314-803	—	—
5/8"-11 x 4"	—	—	314-804	314-806
5/8"-11 x 6"	—	—	314-805	314-808
3/4"-10 x 4"	—	—	—	314-807

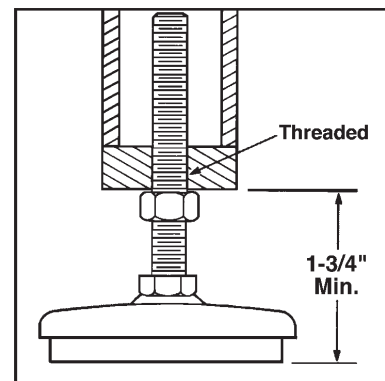
APPLICATIONS



Flange Mounting
(Clearance Hole)



Flange Mounting
(Threaded Hole)

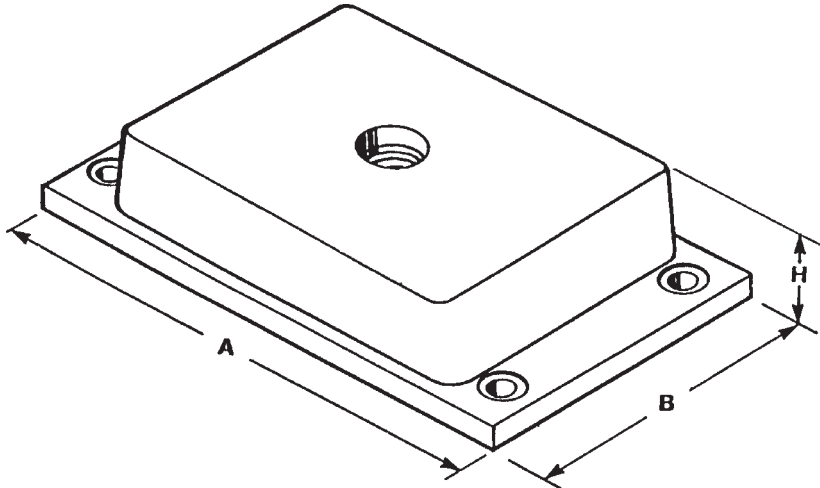


Closed Leg Mounting
(Threaded Hole)

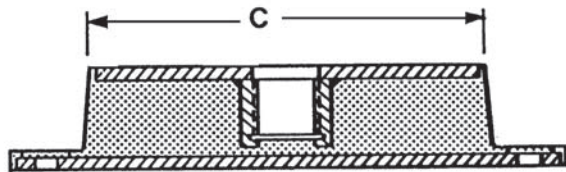
HEAVY INDUSTRIAL COMPRESSION MOUNT

MODEL: VTM™

DESIGN

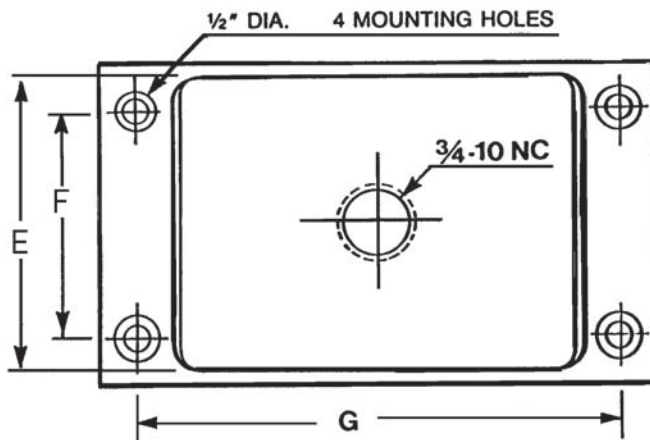


- Consists of rectangular elastomer component bonded with two steel plates.
- Low installation height provides good stability.
- Effectively isolated against horizontal and vertical vibrations.
- Oil and grease resistant.
- Meets OSHA anchoring standards.



APPLICATIONS

- Presses
- Blowers
- Motors
- Pumps
- Vibrators
- Rolling Mills
- Radial Drill Presses
- Machine Shop Equipment
- Injection Moulding Machines, etc.



SPAENAUR No.	MAX. LOAD in LBS.		SPECIFICATIONS in INCHES							HARDNESS
	Non-Impact Machinery	Impact Machinery	A	B	C	E	F	G	H	
314-214	10,000	7,000	12	7-1/8	8-1/2	6-1/2	5	10-3/8	2-1/4	60 A Duro
314-215	15,000	10,500	12	7-1/8	8-1/2	6-1/2	5	10-3/8	2-1/4	80 A Duro

PKG QTY. 1

MAGO®-ROTULA

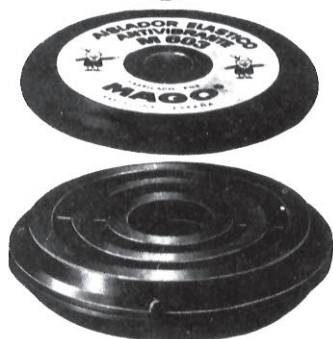
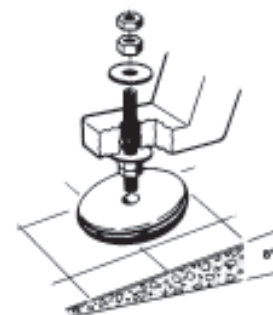
Vibration isolators



Colour-Coded Metal Top Covers indicate different insulator materials.

GOLD TOP COVER

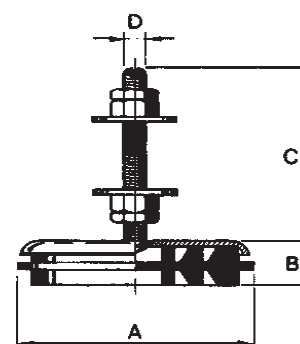
Butyl rubber for maximum vibration absorption.



GREEN TOP COVER

Synthetic rubber for applications where petroleum, oils, solvents or greases are prevalent.

Leveling Screw has a rounded pivot end which is retained in a cup in the metal cover. This acts as a knee joint to level machinery on uneven floors.



Diameters & Lengths in Millimetres

GOLD COLOUR SPAENAUR No.	GREEN COLOUR SPAENAUR No.	Ø A	B	SCREW		LOADS IN KG PER EACH PIECE
				ØD	LENGTH C	
314-150	314-159	50 mm	20 mm	M10	70 mm	0 - 60 kg
314-151	314-160	75 mm	25 mm	M12	100 mm	60 - 125 kg
314-152	314-161	100 mm	26 mm	M12	100 mm	125 - 200 kg
314-153	314-162	125 mm	30 mm	M16	150 mm	200 - 400 kg
314-154	314-163	175 mm	36 mm	M16	150 mm	400 - 700 kg
314-155	314-164	175 mm	44 mm	M16	150 mm	700 - 1400 kg
314-156	314-165	225 mm	42 mm	M20	175 mm	1400 - 2000 kg
314-157	314-166	225 mm	50 mm	M20	175 mm	2000 - 3000 kg
314-158	314-167	225 mm	50 mm	M20	175 mm	3000 - 4000 kg

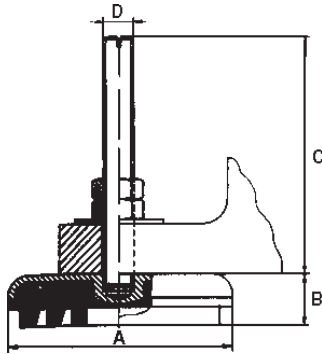
PKG QTY. 1 (Mounting hardware included)

Isolates more than 80% of the vibrations transmitted.

Reduces mechanical stress to both floor and machine.

Not necessary to anchor the machine to the floor, cutting installation costs.

J

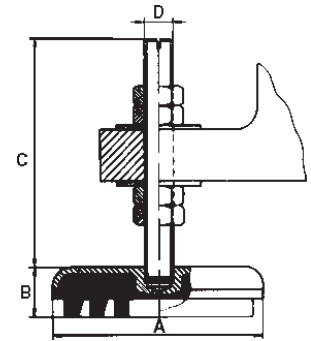


MAGO®-FIX

AVAILABLE IN 6 DIFFERENT SIZES

BUTYL RUBBER
SPECIAL ANTI-VIBRANT COMPOSITION

BOLT SCREWS INTO THE COVER,
CREATING A RIGID ONE-PIECE MOUNT.



DIMENSIONS (in millimetres)

SPAENAUR No.	Approx. Ø A	B	SCREW		LOADS IN KG PER EACH PIECE
			Ø D	LENGTH C	
314-F39-2C	45 mm	20 mm	M8	95 mm	0 - 100 kg
314-G09-1N	75 mm	25 mm	M12	105 mm	100 - 200 kg
314-G10-1C	98 mm	30 mm	M12	100 mm	200 - 400 kg
314-G11-1N	125 mm	30 mm	M16	155 mm	400 - 700 kg
314-F40-1Y	175 mm	37 mm	M16	150 mm	700 - 1500 kg
314-G12-1N	222 mm	42 mm	M20	180 mm	1500 - 3000 kg

PKG QTY. 1 (Mounting hardware included)



MAGO®-BLOK Anti-vibration Pads

For use on heavy machines with flat bases which do not require leveling or anchoring to the floor, or for heavy machinery which has to be anchored to blocks of isolated concrete.

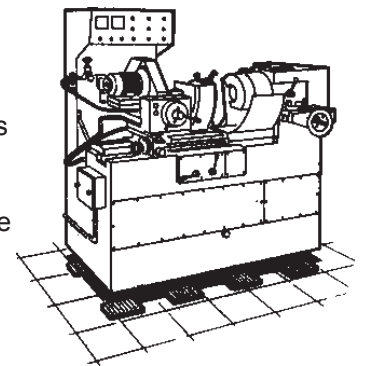
Excellent vibration and resonance absorption.

Reduces mechanical stress to shafts, bearings, gears, etc., to avoid premature wear.

BUTYL RUBBER
SPECIAL ANTI-VIBRANT COMPOSITION

SPAENAUR No.	DIMENSIONS (in millimetres)			LOADS IN KG PER EACH PIECE
	LENGTH	WIDTH	HEIGHT	
899-A01-1N	125 mm	65 mm	18 mm	0 - 150 kg
899-002	200 mm	85 mm	18 mm	150 - 300 kg
899-003	230 mm	115 mm	18 mm	300 - 500 kg
899-004	260 mm	155 mm	18 mm	500 - 700 kg
899-005	125 mm	65 mm	35 mm	0 - 250 kg
899-006	200 mm	85 mm	35 mm	250 - 500 kg
899-007	150 mm	130 mm	35 mm	500 - 700 kg
899-008	230 mm	115 mm	35 mm	600 - 750 kg
899-A02-1T	256 mm	152 mm	35 mm	750 - 1000 kg

PKG QTY. 1



Colour - BLACK
Bottom of pad has
cross-tread grip
pattern.

MAGO®-SUSPEND

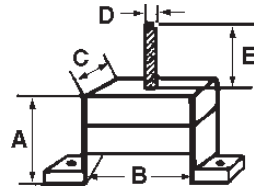
Anti-Vibrating Isolators

This mounting is specially designed to withstand the maximum strains from use with machinery, fixtures, or apparatus that is fixed to the floor or suspended from ceilings and beams. It has a wide range of applications, where the stability of the mount is essential.

BUTYL RUBBER
SPECIAL ANTI-VIBRANT COMPOSITION

DIMENSIONS (in millimetres)

SPAENAUR No.	A	B	C	D	E	*LOADS IN KG PER EACH PIECE
314-174	95 mm	74 mm	40 mm	M12	118 mm	0 - 400 kg
314-175	110 mm	117 mm	60 mm	M14	150 mm	400 - 1250 kg
314-176	137 mm	140 mm	100 mm	M16	215 mm	1250 - 2000 kg



PKG QTY. 1
(Mounting hardware included)

*Important: For suspended equipment, the load in kilos for each mount is 50% less than indicated.

MAGO®-FLEX

Anti-Vibration Supports

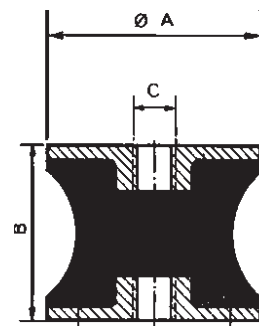
A wide range of applications from sensitive precision appliances to heavy machinery.

Material: Natural Rubber



PKG QTY. 1

SHORE A55/60°		SHORE A75/80°		DIMENSIONS (in millimetres)		
SPAENAUR No.	Load Kg Per Piece	SPAENAUR No.	Load Kg Per Piece	A	B	C
314-189	60 - 80 kg	314-F44-1K	90 - 120 kg	45 mm	35 mm	M8
314-190	80 - 120 kg	314-179	120 - 170 kg	55 mm	44 mm	M8
314-191	100 - 130 kg	314-180	140 - 190 kg	60 mm	60 mm	M10
314-192	120 - 175 kg	314-181	170 - 250 kg	69 mm	50 mm	M10
314-F38-1Y	175 - 260 kg	314-182	250 - 375 kg	85 mm	60 mm	M12
	210 - 420 kg	314-183	300 - 600 kg	96 mm	54 mm	M14
314-195	240 - 490 kg	314-184	350 - 700 kg	98 mm	59 mm	M14
314-196	490 - 1050 kg	314-185	700 - 1500 kg	125 mm	65 mm	M16
314-197	850 - 1300 kg	314-186	1200 - 1800 kg	175 mm	75 mm	M16
314-198	1300 - 1800 kg	314-187	1500 - 2200 kg	225 mm	75 mm	M18



NOTE: Bolt and nut hardware must be ordered separately.

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TYPICAL USES:

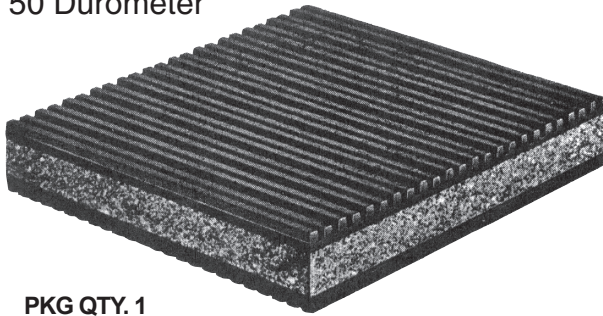
- Refrigeration
- Air Conditioners
- Presses
- Generators
- Pumps
- Business Machines
- Compressors
- Fans
- Motors

**PROLONGS MACHINE LIFE / DAMPENS VIBRATION
REDUCES MAINTENANCE COST**

SPAENAUR Anti-Vibration Pads are available in a neoprene ribbed pad with a 1/2" cork centre. These pads are made from a high quality neoprene elastomer, compounded with excellent resistance to aging, compression set, water and oil.

Additional vibration isolation is obtained with both high and low weight loads by alternate rib height construction. Recommended maximum loading capacity of 50 PSI.

50 Durometer



PKG QTY. 1

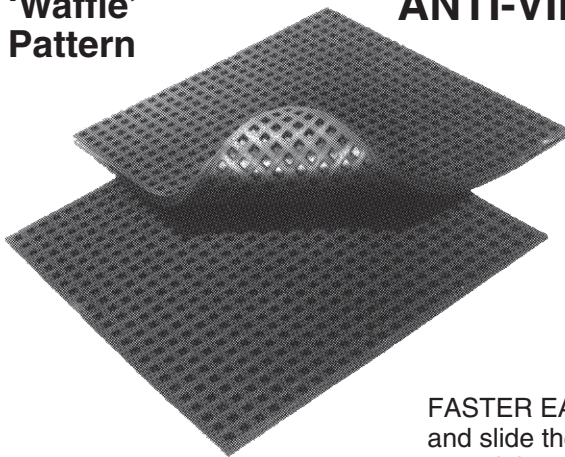
CORK & NEOPRENE PAD

SPAENAUR No.	Dimensions		Weight
	Lgth. x Wdth.	Thick.	
AVP-2	18" x 18"	7/8"-1"	3.06 kg (6-3/4 lbs.)
AVP-3	6" x 6"	7/8"-1"	.255 kg (9 oz.)
AVP-4	4" x 4"	7/8"-1"	.113 kg (4 oz.)
AVP-5	3" x 3"	7/8"-1"	.056 kg (2 oz.)

INSTALLATION DATA

SPAENAUR Anti-vibration Pads should be measured and cut so that there is not more than 50 pounds per square inch of machine weight on it when installed. Since most machinery is designed with approximately 50 pounds PSI maximum base loading, cutting a pad the size of each foot on the machine allowing for 1/2" overlap all around, will generally insure proper loading.

'Waffle' Pattern



ANTI-VIBRATION NEOPRENE PADS

SPAENAUR No.	DIMENSIONS	Max. Load	DURO-METER	Weight	
				kg.	lbs.
*899-050	18" x 18" x 5/16"	50 PSI	50	2.0	4.3
*899-100	18"x 18" x 5/16"	100 PSI	75	2.0	4.3
▲ 899-200	18" x 18" x 1/2"	200 PSI	65	2.5	5.5
▲ 899-300	18" x 18" x 1/2"	300 PSI	80	2.5	5.5

*Plain (no pattern) on one side.
▲Waffle pattern on both sides

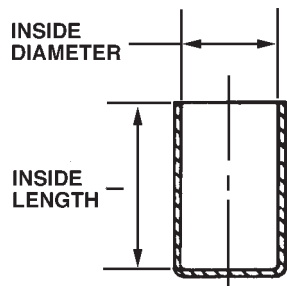
PKG QTY. 1

FASTER EASIER INSTALLATION. Simply lift the machine to be mounted and slide the pads under each leg. The waffle moulded design allows material expansion and highest deflection without loss of stability, maximum resilience and minimum of creep, providing firm footing to both floor and equipment.

Note: When installing allow 1/2" margin all around feet of machine.

**NEOPRENE –
for maximum life
and oil resistance**

Shallow, medium and long Tube Caps to fit most every size tubing diameter with a snug friction fit. Closures are primarily used to cap fittings, threaded studs, machined parts and tubes used in packaging drill bits and other tools.



Material:

Low Density
POLYETHYLENE



Tube Caps

Colour: Orange

SPAENAUR No.	INSIDE DIA.	INSIDE LENGTH	PKG QTY.
317-002	1/8"	5/8"	250
317-003	1/8"	3/4"	250
317-006	3/16"	5/8"	250
317-007	13/64"	5/8"	200
317-010	1/4"	7/8"	200
317-012	5/16"	7/8"	100
317-013	3/8"	7/8"	100
317-015	1/2"	7/8"	100
317-018	5/8"	7/8"	100
*317-019	5/8"	7/8"	100
317-020	5/8"	15/16"	100
317-021	11/16"	7/8"	100
317-022	3/4"	7/8"	100
317-023	3/4"	15/16"	100
317-025	13/16"	7/8"	100
■ 317-026	7/8"	5/8"	100
317-027	7/8"	5/8"	100
317-028	7/8"	7/8"	100
317-029	29/32"	3/4"	100
317-030	29/32"	7/8"	100
317-031	1"	3/4"	50
317-104	1"	1"	10

*3 Internal Rings ■ .067" Wall Thickness

Colour: Red

SPAENAUR No.	INSIDE DIA.	INSIDE LENGTH	PKG QTY.
317-001	3/32"	5/8"	250
317-W25-1C	5/32"	19/32"	250
317-W16-1K	7/16"	7/8"	100
317-W23-1P	9/16"	5/8"	100
317-W74-1Y	13/16"	11/16"	100
317-W38-1N	1-1/8"	7/8"	50

For a reference chart on plastics properties see page R20.

See Page J28 for RIBBED Style, also "LONG" Tube Caps

Continued on page J27.

J

Tube Caps Continued from Page J26

SPAENAUR No.	INSIDE DIAMETER	INSIDE LENGTH	PKG QTY.
317-033	1-1/4"	1"	25
317-034	1-3/8"	5/8"	25
317-035	1-3/8"	7/8"	25
317-036	1-1/2"	1"	25
317-037	1-5/8"	1"	25
317-038	1-23/32"	1"	25
■ 317-039	1-3/4"	7/8"	25
317-040	1-3/4"	7/8"	25
317-042	2"	1"	25
317-043	2-1/8"	7/8"	25
317-044	2-1/4"	7/8"	20
317-045	2-1/4"	1"	20
317-046	2-1/2"	7/8"	20
317-047	2-19/32"	1"	20
317-048	2-5/8"	1"	20
▲ 317-W02-1N	2-3/4"	1"	20
317-050	3"	1"	20
317-051	3-1/8"	1-3/8"	20
317-052	3-1/4"	1"	20
317-053	3-7/16"	1"	20
317-054	3-1/2"	1"	10
317-055	4"	1-1/8"	10
317-056	4-1/8"	1-1/2"	10
317-058	4-13/16"	41/64"	10
317-059	4-7/8"	59/64"	10

■ .085" Wall Thickness

Colour:

Orange

▲ Red

Material:

Low Density

POLYETHYLENE

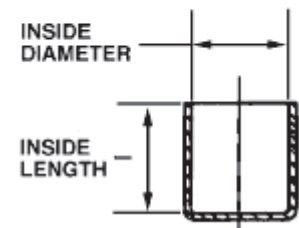
Shallow Tube Caps

Colour: Orange

SPAENAUR No.	INSIDE DIAMETER	INSIDE LENGTH	PKG QTY.
317-064	3/16"	15/32"	100
317-067	3/8"	15/32"	100
317-068	7/16"	7/32"	100
317-069	7/16"	1/2"	100
317-071	9/16"	3/32"	100
317-076	1-1/4"	1/2"	50
317-077	1-3/8"	11/32"	50
317-079	2-1/8"	1/2"	25
317-080	2-5/32"	15/32"	25

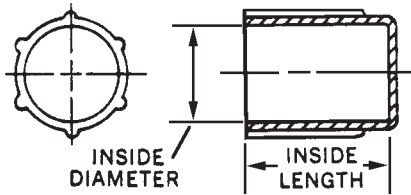
Colour: Red

317-W32-1M	1/4"	1/2"	100
317-W17-1W	5/16"	3/8"	100
317-W29-1W	1/2"	1/2"	100
317-W12-1Y	1"	5/8"	50



See also our
Ribbed Tube Caps
(Page J28)
for added ease
of application.

Continued on next page...



Continued from
Pages J26 and J27.

Ribbed Tube Caps

Colour: Orange

SPAENAU No.	INSIDE DIAMETER	INSIDE LENGTH	PKG QTY.
317-083	3/8"	3/4"	100
317-084	7/16"	3/8"	100
317-085	7/16"	5/8"	100
317-086	15/32"	3/4"	100
317-087	1/2"	7/16"	100
317-088	9/16"	27/64"	100
317-089	9/16"	3/4"	100

Material:
Low Density
POLYETHYLENE

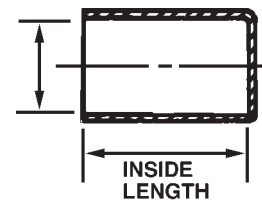
Long Tube Caps

Colour: Orange

SPAENAU No.	INSIDE DIAMETER	INSIDE LENGTH	PKG QTY.
*317-099	5/8"	2-1/2"	20
317-100	3/4"	2-15/32"	10
317-101	7/8"	1-3/4"	10
317-102	7/8"	2"	10
317-107	1-1/16"	1"	10
317-110	1-1/4"	1-3/4"	10
317-111	1-3/8"	1-1/2"	10
317-112	1-3/8"	1-19/32"	10
317-113	1-1/2"	1-3/4"	5
317-115	1-27/32"	1-7/32"	5

*Yellow

Material:
Low Density
POLYETHYLENE

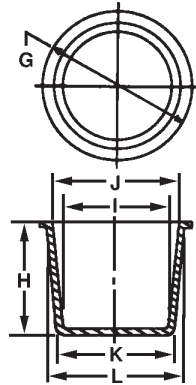


Colour: Red

SPAENAU No.	INSIDE DIAMETER	INSIDE LENGTH	PKG QTY.
317-W40-1N	3/8"	1-1/8"	50
317-W31-1W	27/64"	1-1/4"	50
317-W24-1Y	5/8"	1-1/2"	25
317-W58-1A	1"	1-3/4"	10
317-W27-1T	1-1/4"	1-1/2"	10
317-W49-1C	1-5/8"	1-1/4"	5
317-W75-1C	2"	1-1/2"	5



Tapered and flexible to install easily, remove easily, for a snug fit as either a cap or plug. Perfect for easy access locations to protect threads and keep dirt and moisture out of pipes, castings, valves, tubes, most everything...an ideal paint mask.



Colour:
Orange

Material:
Low Density
POLYETHYLENE

Tapered Caps & Plugs

SPAENAUR No.	N.P.T. SIZES		STANDARD THREAD SIZES		METRIC THREAD SIZES		DIMENSIONS						PKG QTY.
	CAP	PLUG	PLUG	CAP	CAP	PLUG	G	H	I	J	K	L	
317-117			10-32		M2	M5	5/16"	13/32"	.052"	.117"	.116"	.181"	100
317-118			1/4"		M2.5	M6	3/8"	13/32"	.110"	.177"	.174"	.241"	100
317-119					M3								
317-120					M3.5								
317-121			5/16"		M4		29/64"	11/32"	.146"	.211"	.210"	.275"	100
317-122					M4.5	M7	3/8"	11/32"	.150"	.210"	.209"	.269"	100
317-123			3/8"	5/16"	M5	M8	15/32"	3/8"	.175"	.239"	.239"	.303"	100
317-124		1/8"			M6	M8 x 1	15/32"	13/32"	.205"	.273"	.267"	.335"	100
317-125			7/16"		M7	M10	1/2"	13/32"	.235"	.303"	.299"	.367"	100
317-127				3/8"	M7	M10 x 1.25	9/16"	3/8"	.267"	.333"	.331"	.397"	100
317-128	1/8"	1/4"	1/2"		M8	M12	9/16"	13/32"	.298"	.364"	.362"	.428"	100
317-129				7/16"	M10	M12 x 1.25	19/32"	13/32"	.328"	.395"	.392"	.459"	100
▲317-W13-1C			9/16"	1/2"	M10 x 1.25	M14	5/8"	13/32"	.358"	.422"	.422"	.486"	100
317-131			9/16"	1/2"		M14 x 1.5	21/32"	13/32"	.384"	.448"	.448"	.512"	100
317-132					M12	M16	11/16"	15/32"	.408"	.484"	.472"	.548"	100
317-134					M12 x 1.25		23/32"	15/32"	.436"	.504"	.500"	.568"	100
317-135	1/4"		5/8"				3/4"	11/32"	.490"	.550"	.552"	.612"	100
317-136		3/8"		9/16"			3/4"	15/32"	.469"	.544"	.533"	.608"	100
317-137				5/8"	M14	M18	25/32"	1/2"	.487"	.569"	.551"	.633"	100
317-138					M14 x 1.5	M18 x 1.5	27/32"	17/32"	.518"	.606"	.590"	.674"	100
▲317-W46-1A			3/4"				27/32"	17/32"	.549"	.634"	.610"	.695"	100
317-141	3/8"				M16	M20	7/8"	1/2"	.578"	.665"	.642"	.729"	100
317-143		1/2"			M16 x 1.5	M20 x 1.5	7/8"	17/32"	.614"	.691"	.678"	.755"	100
▲317-W50-1Y							15/16"	19/32"	.627"	.723"	.691"	.787"	100
							55/64"	3/16"	.688"	.743"	.750"	.805"	100

▲ Red

For **CAP** applications, the "I" dimension should be at least .020" less than diameter to be capped.
For **PLUG** applications, the "L" dimension should be at least .020" larger than the opening.

Continued on page J30.

Continued from Previous page

Colour: Orange

Material: Low Density POLYETHYLENE

SPAENAUR No.	N.P.T. SIZES		STANDARD THREAD SIZES		METRIC THREAD SIZES		DIMENSIONS						PKG QTY.
	CAP	PLUG	PLUG	CAP	CAP	PLUG	G	H	I	J	K	L	
317-145				3/4"		M22 x 1.5	1"	19/32"	.663"	.761"	.727"	.825"	100
317-146			7/8"		M18 M18 x 1.5	M24	1"	19/32"	.668"	.785"	.752"	.849"	100
317-147	1/2"		15/16"			M24 x 2	1-1/16"	21/32"	.739"	.848"	.803"	.912"	100
317-148			1"	7/8"	M20 M20 x 1.5		1-1/8"	5/8"	.755"	.869"	.819"	.933"	100
▲317-W48-1Y		3/4"					1-1/8"	21/32"	.790"	.894"	.854"	.958"	50
317-150		3/4"				M27	1-1/8"	3/4"	.805"	.909"	.869"	.973"	50
317-151		3/4"					1-1/8"	21/32"	.805"	.909"	.869"	.973"	50
317-152							1-5/32"	1/2"	.878"	.971"	.942"	1.035"	50
317-153			1-1/16"		M22 M22 x 1.5	M27 x 2	1-5/32"	23/32"	.855"	.980"	.915"	1.040"	50
317-155							1-5/16"	7/8"	.940"	.960"	1.020"	1.040"	50
317-156							1-1/4"	1/2"	.918"	.985"	.980"	1.049"	50
317-157							1-1/4"	1-1/32"	.890"	1.030"	.950"	1.090"	50
317-158	3/4"				M24 M24 x 2	M30	1-9/32"	3/4"	.903"	1.028"	.967"	1.092"	50
317-159				1-1/16"		M30 x 2	1-5/16"	25/32"	.933"	1.080"	.997"	1.144"	50
317-160		1"	1-1/4"		M27 M27 x 2	M33	1-13/32"	25/32"	1.029"	1.155"	1.093"	1.219"	50
317-161						M33 x 2	1-7/16"	21/32"	1.116"	1.223"	1.180"	1.280"	50
317-162			1-5/16"			M36	1-7/16"	3/4"	1.115"	1.222"	1.179"	1.286"	50
▲317-W26-1N							1-3/8"	9/16"	1.155"	1.190"	1.276"	1.312"	50
317-164					M30 M30 x 2		1-1/2"	3/4"	1.162"	1.290"	1.226"	1.354"	50
317-165	1"			1-5/16"		M36 x 3	1-1/2"	27/32"	1.175"	1.300"	1.233"	1.358"	50
317-166							1-1/2"	3/4"	1.228"	1.292"	1.292"	1.356"	50
317-168			1-1/2"				1-5/8"	17/32"	1.286"	1.401"	1.350"	1.465"	50
317-169							1-5/8"	3/4"	1.248"	1.401"	1.312"	1.465"	50
317-170					M33 M33 x 2	M39 M39 x 3	1-3/4"	51/64"	1.340"	1.420"	1.435"	1.500"	50
317-171							1-49/64"	15/16"	1.282"	1.450"	1.344"	1.507"	50
317-172			1-9/16"				1-3/4"	7/8"	1.384"	1.537"	1.447"	1.600"	50
317-173		1-1/4"			M36 M36 x 3		1-3/4"	3/4"	1.387"	1.537"	1.451"	1.601"	50
317-174			1-5/8"				1-25/32"	3/4"	1.455"	1.538"	1.519"	1.602"	50
317-175	1-1/4"			1-5/8"	M39 M39 x 3		1-7/8"	25/32"	1.498"	1.620"	1.560"	1.682"	50
317-176	1-1/4"			1-5/8"			1-7/8"	5/8"	1.514"	1.628"	1.574"	1.688"	50
317-177							1-15/16"	3/4"	1.569"	1.686"	1.633"	1.750"	50
317-178		1-1/2"	1-7/8"				2"	25/32"	1.688"	1.818"	1.752"	1.882"	25
*317-179	1-1/2"			1-7/8"			2-5/32"	1"	1.743"	1.874"	1.807"	1.938"	25
*317-180							2-3/8"	43/64"	1.785"	1.895"	1.865"	1.975"	25
*317-181							2-1/8"	1"	1.783"	1.936"	1.847"	2.000"	25
▲*317-W09-1P							2-13/64"	3/4"	1.885"	2.000"	1.950"	2.065"	25
*317-184							2-1/4"	1"	1.839"	2.014"	1.903"	2.078"	25
*317-185							2-1/4"	1"	1.917"	2.069"	1.981"	2.133"	25
▲*317-W11-1W							2-19/32"	3/8"	2.036"	2.076"	2.100"	2.140"	25
*317-187							2-5/16"	3/4"	1.953"	2.083"	2.017"	2.147"	25
*317-188			2-1/4"				2-7/16"	1-1/32"	2.000"	2.174"	2.070"	2.244"	25
*317-189				2-1/4"			2-19/32"	1"	2.093"	2.265"	2.157"	2.329"	25
▲*317-W08-1A							2-51/64"	3/4"	2.216"	2.336"	2.280"	2.400"	25
*317-191							2-17/32"	1"	2.065"	2.344"	2.129"	2.408"	25
*317-192	2"						2-5/8"	1"	2.236"	2.400"	2.300"	2.464"	25

▲Red *For Pull-Plug only, see page J32-J33.

For CAP applications, the "I" dimension should be at least .020" less than diameter to be capped.
For PLUG applications, the "L" dimension should be at least .020" larger than the opening.

Continued on next page.

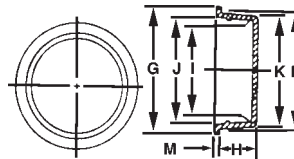
Continued from pages J29 & J30	SPAENAUR No.	N.P.T. SIZES		STANDARD THREAD SIZES		DIMENSIONS						PKG QTY.
		CAP	PLUG	PLUG	CAP	G	H	I	J	K	L	
317-194				2-1/2"	2-13/16"	1-5/32"	2.332"	2.540"	2.396"	2.604"	10	
317-195					2-25/32"	3/4"	2.418"	2.581"	2.482"	2.645"	10	
317-196					2-25/32"	1"	2.247"	2.586"	2.311"	2.650"	10	
317-197					2-7/8"	3/4"	2.497"	2.626"	2.561"	2.690"	10	
317-198					2-7/8"	1"	2.393"	2.686"	2.457"	2.750"	10	
317-199		2-1/2"			2-31/32"	25/32"	2.579"	2.727"	2.643"	2.791"	10	

▲Red

FOR COMPLETE LISTING OF PLASTIC ITEMS IN THIS SECTION

SEE PAGES J26 to J41.

Extra Large Tapered Caps & Plugs



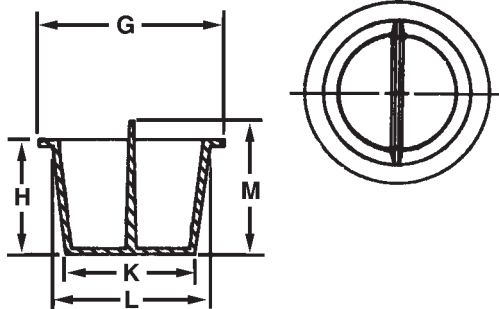
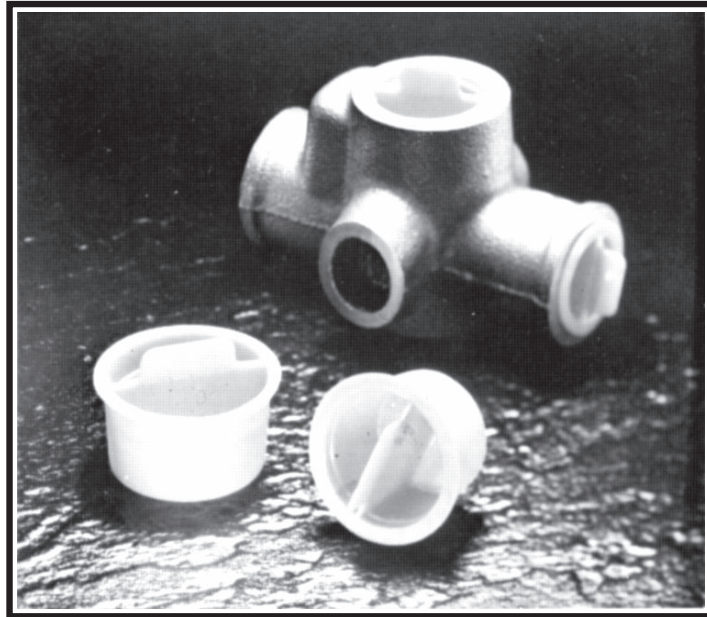
Colour: Orange

Material: Low Density POLYETHYLENE

SPAENAUR No.	N.P.T. SIZES		DIMENSIONS							PKG QTY.
	CAP	PLUG	G	H	I	J	K	L	M	
317-200			3-1/16"	23/32"	2.626"	2.790"	2.706"	2.870"	.040"	10
317-201			3-1/4"	3/4"	2.786"	2.918"	2.850"	2.982"	.030"	10
317-202	2-1/2"		3-1/8"	1"	2.656"	2.926"	2.720"	2.990"	.032"	10
317-203			3-13/32"	15/32"	2.916"	3.079"	2.996"	3.159"	.045"	10
317-204			3-7/16"	23/32"	2.920"	3.120"	3.000"	3.200"	.035"	10
317-205			3-3/8"	1"	2.910"	3.174"	2.980"	3.244"	.035"	10
317-206			3-1/2"	1"	3.018"	3.297"	3.088"	3.367"	.035"	10
317-207		3"	3-5/8"	3/4"	3.250"	3.382"	3.320"	3.452"	.035"	10
317-208	3"		3-11/16"	1-1/8"	3.200"	3.492"	3.270"	3.562"	.035"	10
317-209			3-7/8"	3/4"	3.406"	3.542"	3.466"	3.602"	.045"	10
317-210			4"	3/4"	3.596"	3.722"	3.676"	3.802"	.040"	10
317-211	3-1/2"	3-1/2"	4-1/8"	3/4"	3.710"	3.840"	3.790"	3.920"	.040"	10
317-212			4-3/8"	3/4"	3.848"	3.994"	3.928"	4.074"	.040"	10
317-213			4-17/32"	3/4"	3.940"	4.060"	4.020"	4.140"	.040"	10
317-214		4"	4-15/16"	15/16"	4.134"	4.379"	4.214"	4.459"	.060"	10
317-215	4"		5"	1"	4.288"	4.502"	4.368"	4.622"	.060"	10
317-216			5-1/4"	7/8"	4.568"	4.782"	4.638"	4.852"	.060"	10
317-217			5-7/16"	11/16"	4.900"	5.020"	4.980"	5.100"	.060"	10
317-218		5"	5-7/8"	7/8"	5.206"	5.374"	5.326"	5.494"	.065"	10
317-219	5"		6-1/8"	1"	5.386"	5.544"	5.466"	5.624"	.040"	10
317-220			6-1/4"	1"	5.606"	5.794"	5.696"	5.874"	.065"	5
317-221			6-5/8"	1"	5.918"	6.094"	6.008"	6.184"	.045"	5
317-222	6"	6"	6-15/16"	7/8"	6.328"	6.494"	6.398"	6.564"	.065"	5
317-223			7-3/16"	1-1/2"	6.528"	6.634"	6.668"	6.774"	.065"	5
317-224			7-5/8"	1"	6.968"	7.044"	7.048"	7.124"	.065"	5
317-225			7-15/16"	1"	7.254"	7.580"	7.338"	7.656"	.065"	5
317-226			8-1/8"	1"	7.574"	7.762"	7.658"	7.846"	.070"	5
317-227			8-3/8"	1"	7.874"	8.052"	7.968"	8.146"	.070"	5
317-228			9-1/8"	1-1/2"	8.534"	8.602"	8.668"	8.736"	.070"	5

Easy-in, easy-out pull tab design are especially convenient where access for insertion and removal is difficult. Flexible, tapered body insures a tight pressure fit to keep dirt and moisture out of pipes, castings, valves, tubes, etc...an ideal paint mask.

See pages J29 to J31, Tapered Caps & Plugs when pull tab is not preferred. (Comparable sizes available.)



Colour: Orange Material: Low Density POLYETHYLENE

Pull Plugs

SPAENAUR No.	N.P.T. SIZE	UNIFIED THREAD SIZE	METRIC THREAD SIZE	DIMENSIONS					PKG QTY.
				G	H	K	L	M	
317-233			M7	3/8"	11/32"	.209"	.269"	19/32"	100
317-231		5/16"-24	M8 M8 x 1	15/32"	3/8"	.239"	.303"	5/8"	100
317-232				15/32"	13/32"	.267"	.335"	25/32"	100
317-408		3/8"	M10/M10 x 1.25	.500"	.380"	.299"	.367"	.780"	100
•317-W20-1M	1/8"			9/16"	3/8"	.331"	.397"	5/8"	100
317-424		7/16"	M12	.560"	.380"	.362"	.428"	.750"	100
317-239			M12 M12 x 1.25	5/8"	3/8"	.392"	.459"	3/4"	100
317-240	1/4"	1/2"-20	M14	5/8"	13/32"	.422"	.486"	25/32"	100
•317-W54-1K			M14 x 1.5	21/32"	13/32"	.448"	.512"	17/32"	100
317-243		9/16"-18		11/16"	15/32"	.472"	.548"	13/16"	100
•317-W33-1X			M16	23/32"	15/32"	.500"	.568"	13/16"	50
317-248	3/8"		M18	25/32"	7/32"	.580"	.625"	11/32"	50
•317-W22-1A	3/8"		M18	25/32"	1/2"	.551"	.633"	3/4"	50
•317-W18-1M			M18 x 1.5	13/16"	17/32"	.580"	.668"	3/4"	50
317-251				27/32"	17/32"	.610"	.695"	25/32"	50
•317-W30-1K		3/4"-16	M20	7/8"	1/2"	.642"	.729"	3/4"	50
317-254			M20 x 1.5	7/8"	17/32"	.678"	.755"	25/32"	50
•317-W44-1M	1/2"		M22	55/64"	7/32"	.725"	.770"	11/32"	50
317-256	1/2"		M22	15/16"	19/32"	.691"	.787"	3/4"	50
317-257			M22 x 1.5	1"	19/32"	.727"	.825"	27/32"	50

• Colour: Red

Pull Plugs

...Continued

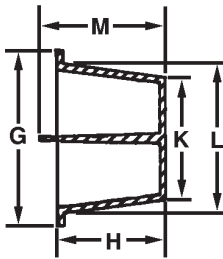
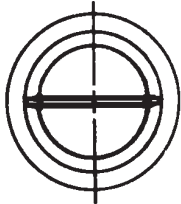
Colour:

Red
*Orange

Material:

Low Density

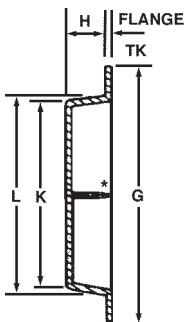
POLYETHYLENE



SPAENAUR No.	N.P.T. SIZE	UNIFIED THREAD SIZE	METRIC THREAD SIZE	DIMENSIONS					PKG QTY.
				G	H	K	L	M	
317-W47-1P		7/8"-14	M24	1"	19/32"	.752"	.849"	3/4"	50
317-407		5/8"	M24 x 2	.750"	.470"	.533"	.608"	.720"	50
317-W55-1W				1-3/32"	21/32"	.803"	.912"	29/32"	50
317-409	3/4"		M27	1.12"	.750"	.869"	.973"	1.00"	50
317-W03-1T	3/4"		M27	1-5/32"	5/8"	.869"	.973"	7/8"	50
317-W37-1C		1-1/16"-12	M27 x 2	1-5/32"	23/32"	.915"	1.040"	29/32"	25
317-418			M30	1-1/4"	25/32"	.967"	1.092"	1-1/32"	25
317-266			M30 x 2	1-11/32"	3/4"	1.003"	1.144"	1"	25
317-411	1"		M33	1-11/32"	1/2"	1.100"	1.210"	5/8"	25
317-419	1"		M33	1-13/32"	25/32"	1.093"	1.219"	1"	25
317-W43-1W		1-5/16"-12	M33 x 2 M36	1-7/16"	3/4"	1.179"	1.286"	1"	25
317-W28-1K			M36 x 3	1-17/32"	3/4"	1.234"	1.361"	1"	25
317-W56-1M			M39 M39 x 3	1-5/8"	3/4"	1.312"	1.465"	1"	25
317-274				1-3/4"	7/8"	1.344"	1.527"	1"	25
317-W39-1T	1-1/4"			1-3/4"	3/4"	1.451"	1.601"	1"	25
*317-278				1-29/32"	3/4"	1.563"	1.686"	1"	25
*317-280				1-15/16"	1/2"	1.735"	1.784"	3/4"	25
*317-281				1-15/16"	1/2"	1.754"	1.798"	3/4"	25
317-410				1.94"	.780"	1.633"	1.750"	1.11"	25
317-413	1-1/2"			2-1/32"	1/2"	1.820"	1.835"	3/4"	10
317-W21-1X				2-5/32"	1"	1.807"	1.938"	1-1/4"	10
317-W07-1X		2-1/4"-12		2-15/32"	1"	2.070"	2.244"	1-1/4"	10
317-W51-1C				2-27/32"	1"	2.396"	2.604"	1-1/4"	10
317-W35-1P	2-1/2"			2-31/32"	1/2"	2.643"	2.791"	3/4"	10
317-W19-1X				3-9/32"	3/4"	2.850"	2.982"	1"	10
317-W15-1T	3"			3-5/8"	3/4"	3.320"	3.452"	1"	10

Wide Flange Pull Plugs

Colour: Orange



SPAENAUR No.	UNIFIED THREAD SIZE	METRIC THREAD SIZE	HOLE SIZE	DIMENSIONS				FLANGE TK.	PKG QTY.
				G	H	K	L		
317-293	9/16"		1/2"	1-1/4"	1/2"	.480"	.540"	.030"	25
317-294	11/16"	M18x1.5	5/8"	1-1/16"	1/2"	.590"	.647"	.030"	25
317-295	3/4"		3/4"	1-5/32"	1/2"	.642"	.729"	.040"	25
317-296				1-1/2"	1/2"	.730"	.790"	.030"	25
317-297	7/8"	M24		1-5/16"	1/2"	.752"	.849"	.030"	25
317-299	1-1/16"	M27x2		1-19/32"	11/16"	.921"	1.075"	.060"	25
317-300				1-3/4"	3/4"	1.003"	1.144"	.070"	25
317-301	1-5/16"	M33x2/M36		1-7/8"	11/16"	1.202"	1.297"	.062"	25
317-302			1-1/4"	2"	1/2"	1.230"	1.290"	.040"	25
317-303			1-1/2"	2-3/8"	3/4"	1.460"	1.550"	.050"	10
317-304	1-5/8"			2-1/4"	3/4"	1.519"	1.602"	.055"	10
317-305	1-7/8"			2-17/32"	3/4"	1.752"	1.882"	.045"	10
317-306			2"	2-3/4"	3/4"	1.960"	2.050"	.050"	10
317-307			2-1/2"	3-1/4"	3/4"	2.460"	2.550"	.050"	10

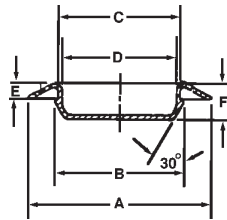
Type 1, Flush front.
Type 2, Recessed front.

Snap-In Plugs are tough, flexible "finishing" plugs used extensively in all sheet metal work to seal access holes. Insertion is a snap, bead retention is strong. Snap-In Plugs are used by auto rustproofers, on refrigeration units, water heaters, steel doors, paint cans, lawn mowers...even piggy banks!

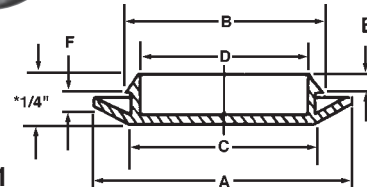
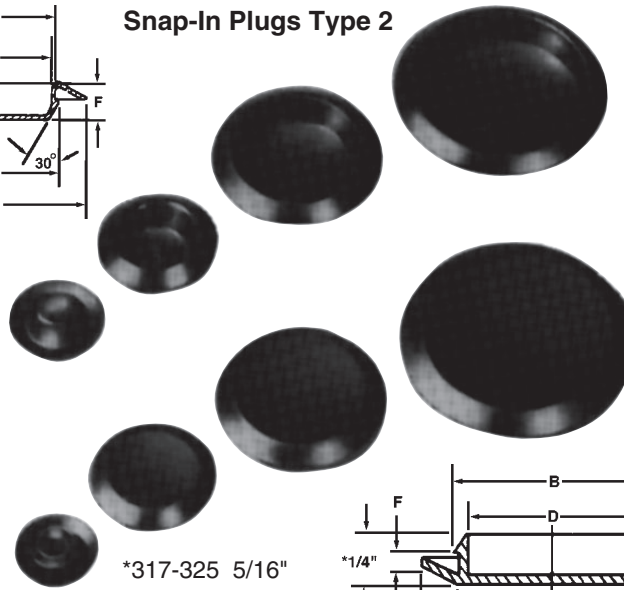
To fit 14 to 26 gauge material.

Colour: Black

Material: Low Density
 POLYETHYLENE



Snap-In Plugs Type 2



*317-325 5/16"
 *317-326 1/2"

Snap-In Plugs Type 1

Snap-In Plugs

	SPAENAUR No.	HOLE SIZE	DIMENSIONS						PKG QTY.
			A	B	C	D	E	F	
Type 1 Flush front	317-W42-1K	3/8"	3/4"	.410"	.375"	.305"	.090"	.125"	100
	317-309	1/2"	7/8"	.540"	.500"	.400"	.110"	.090"	100
	317-310	5/8"	13/16"	.675"	.625"	.545"	.140"	.080"	100
	317-311	11/16"	1-1/16"	.710"	.680"	.556"	.094"	.094"	100
	317-312	3/4"	1"	.790"	.750"	.625"	.100"	.090"	100
	317-313	7/8"	1-5/32"	.910"	.875"	.750"	.100"	.090"	50
	317-314	1"	1-3/8"	1.070"	1.010"	.875"	.110"	.094"	50
	317-315	1-3/32"	1-5/16"	1.150"	1.090"	1.000"	.125"	.080"	50
	317-316	1-3/16"	1-9/16"	1.240"	1.200"	1.050"	.100"	.100"	50
	317-317	1-1/4"	1-5/8"	1.290"	1.250"	1.125"	.110"	.090"	50
	317-318	1-1/2"	1-7/8"	1.540"	1.500"	1.400"	.110"	.090"	25
	317-319	1-3/4"	2-1/8"	1.790"	1.750"	1.620"	.105"	.094"	25
	317-320	2"	2-7/16"	2.080"	2.020"	1.875"	.100"	.094"	25
	317-321	2-1/2"	3"	2.580"	2.520"	2.375"	.100"	.094"	25
317-322	2-5/8"	3-1/8"	2.705"	2.645"	2.500"	.100"	.094"	10	
317-323	3"	3-3/8"	3.060"	3.000"	2.850"	.110"	.090"	10	
	*317-325	4"	4-1/2"	4.100"	4.020"	3.900"	.150"	.080"	5
	*317-326	4"	4-1/2"	4.100"	4.020"	3.900"	.090"	.340"	5
Type 2 Recessed front ■317-519 (Orange)	■317-327	1/2"	7/8"	.538"	.500"	.430"	.125"	.285"	100
	317-328	3/4"	1-5/32"	.800"	.750"	.660"	.170"	.360"	50
	317-520	7/8"	1-1/4"	.915"	.875"	.795"	.155"	.350"	50
	317-329	1"	1-3/8"	1.050"	1.000"	.930"	.160"	.350"	50
	317-330	1-1/4"	1-5/8"	1.308"	1.250"	1.170"	.140"	.350"	50
	317-331	1-1/2"	1-7/8"	1.550"	1.500"	1.420"	.150"	.370"	25
	317-332	1-3/4"	2-1/8"	1.800"	1.750"	1.670"	.160"	.350"	25
	317-333	2"	2-3/8"	2.050"	2.000"	1.910"	.180"	.360"	25
317-334	2-1/2"	3"	2.570"	2.500"	2.400"	.160"	.380"	10	
317-335	3"	3-1/2"	3.060"	3.000"	2.910"	.190"	.410"	10	

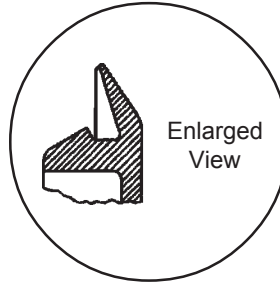
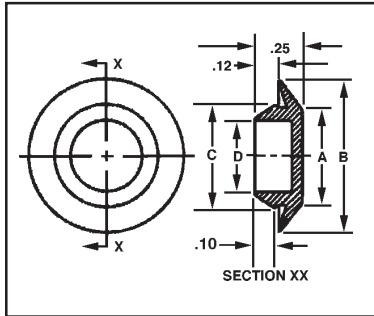
J

FLUSH TYPE HEAD STYLE

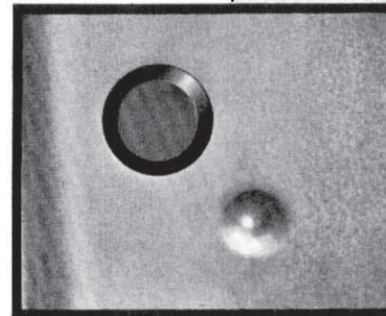
MATERIAL: Polyethylene (Black)
Conforms to Fed. Spec. L-P-390

Used for plugging holes in equipment made of sheet metal such as automobile bodies, tanks, refrigeration units, etc.

Note: These plug buttons are impervious to solvents, sterilizing agents, caustic and acid baths and are vermin and fungus proof. They will not chip, break or shred under most severe conditions and will retain form stability, under stress, at temperatures ranging from **-70°C up to + 79.4°C.**

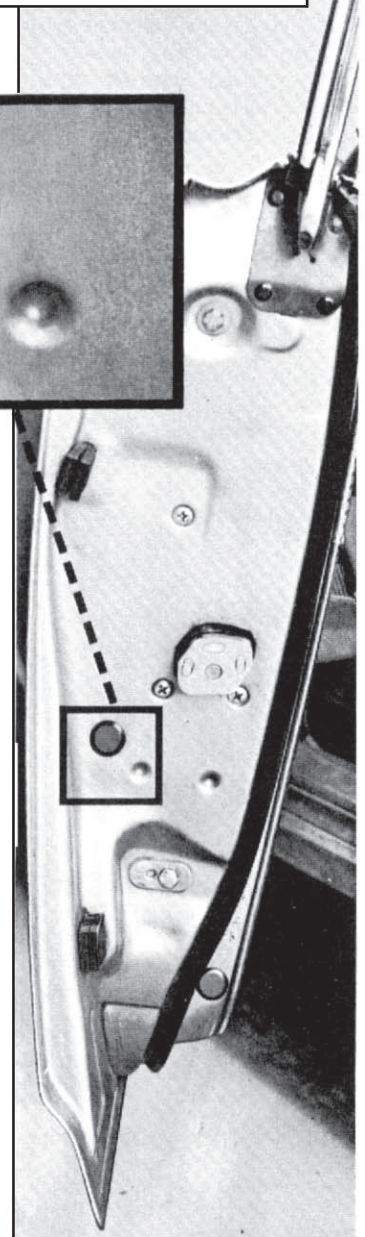


FLUSH TYPE HEADS



SPAENAUR Plastic Plug Buttons can be snapped into holes easily and are held in place by a bead until deliberately removed.

SPAENAUR No.	Nom. Hole Size	Dimensions—Inches				To Fit	
		A	B	C	D	Hole Size	Metal Thickness
245-003	3/8"	.38	.75	.41	.31	.370-.380	.02-.06
245-004	1/2"	.50	.86	.54	.42	.490-.515	.03-.08
245-005	5/8"	.62	.81	.67	.54	.610-.635	.06-.08
245-006	3/4"	.75	1.01	.79	.63	.735-.765	.05-.11
245-007	7/8"	.87	1.16	.91	.73	.860-.885	.03-.08
245-W02-1P	15/16"	.94	1.31	.98	.78	.922-.955	.03-.08
245-009	1"	1.00	1.37	1.04	.84	.980-1.015	.03-.08
245-010	1-3/16"	1.20	1.56	1.24	1.05	1.176-1.215	.03-.08
245-011	1-1/4"	1.25	1.62	1.29	1.09	1.225-1.265	.03-.08
245-012	1-5/16"	1.32	1.68	1.36	1.16	1.295-1.330	.03-.08
245-013	1-3/4"	1.75	2.13	1.79	1.61	1.735-1.765	.03-.08
245-014	2-1/8"	2.13	2.49	2.17	1.97	2.105-2.145	.03-.08
245-015	3"	3.00	3.36	3.06	2.84	2.975-3.025	.03-.08
245-016	3-1/8"	3.12	3.52	3.18	2.96	3.100-3.150	.03-.08
245-017	3-1/2"	3.50	3.86	3.56	3.34	3.475-3.525	.03-.11
245-018	4"	4.01	4.37	4.13	3.85	3.975-4.025	.05-.13



Contact Sales Desk For Package Quantities

SEE PAGES F3, H2-H4, J2, J3 and J36

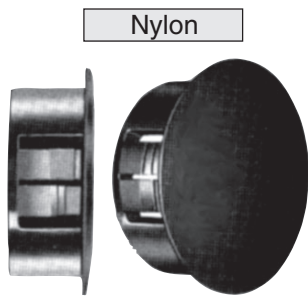
FOR MORE METALLIC, NYLON
AND PLASTIC PLUG BUTTONS.

For a reference chart on Plastics Properties see page R20.

Hole Plugs and Vent Plugs

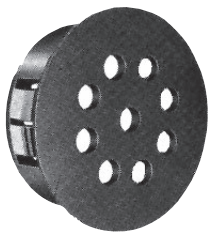
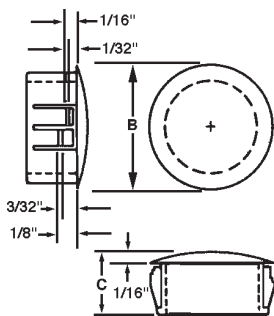
These will close your unneeded chassis holes quickly, easily and at low cost. Nylon material makes them suitable for use at elevated temperatures. 24 sizes for use in 3/16" to 3" diameter holes are available.

They lock firmly in chassis up to 1/4" thick. The convex matte finish head tapers to a thin edge and assures good appearance. Three sizes are also available with holes in their head for ventilation.



Nylon

DP HOLE PLUG ▲ { 245-066 (Beige)



VP Vent Plug

Mounting Hole Dia. up to 4" available on DP and VP type. Price on Request.

For 7/8", 1" and 2-1/2" holes.

CHASSIS DIMENSIONS	Mounting Hole Diameter	SPAENAUR No.			PKG QTY.	Type	PART DIMENSIONS	
		BLACK	WHITE	B Head Diameter			C Overall Height	
.062"	.187"	245-019	245-042	100	DP	1/4"	15/64"	
	.250"	245-W06-1T	245-041	100	DP	5/16"	5/16"	
	.312"	245-021	245-043	100	DP	3/8"		
.125"	.375"	245-H05-1X	245-022	100	DP	15/32"	13/32"	
	.437"	245-049	245-023	100	DP	17/32"		
	.500"	245-044	245-024	100	DP	37/64"		
	.562"	245-047	245-025	100	DP	21/32"		
	.625"	245-W07-1K	245-H03-1W	100	DP	23/32"		
	.687"	245-027		100	DP	25/32"		
	.750"	245-W12-1X	245-W10-1W	100	DP	59/64"		
	.812"	245-029		100	DP	57/64"		
	.875"	245-W11-1M	245-048	100	DP	1-1/64"		
		245-W05-1T		100	VP			
.250"	1.000"	245-046	245-H01-1T	100	DP	1-13/64"	29/64"	
		245-033	245-060	100	VP			
	1.093" to 1.125"	245-034		100	DP	1-7/32"		
	1.187"	245-035		50	DP	1-5/16"		
	1.250"	245-058	245-036	50	DP	1-3/8"		
	1.375"	245-037		50	DP	1-1/2"		
	1.500"	245-038	245-062	50	DP	1-43/64"		
	1.750"	245-039	245-050	50	DP	1-29/32"		
	2.000"	245-054	245-040	25	DP	2-9/64"		
	2.093" to 2.125"	245-059		10	DP	2.343"		
2.500"	245-051	245-052	10	DP	2.775"			
2.500"		245-061	10	VP	2-23/32"			
3.000"	245-057		10	DP	3-11/64"			

See pages F4, H2-H4 for Metallic types

See page J2 and J3 for more Nylon Plug Buttons.

ASSORTMENT 805-627

Nylon Hole & Vent Plugs HOLE PLUG & BUSHING

22 SIZES - 475 PIECES

Large Size Grey Enamelled Drawer fits the Slide Racks shown on Page A3

Shipping weight 3.85 kg (8.5 lbs.)

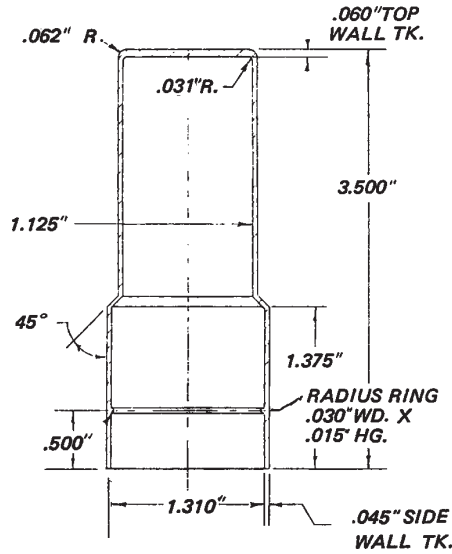
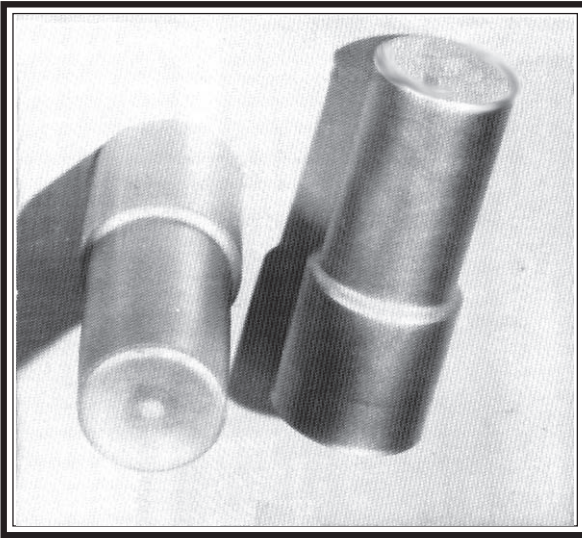


Panel Thickness Range	Spaenaur No.	Mounting Hole Size	Head Diameter	Colour	Qty.
0.062"	245-019	0.187"	1/4"	Black	50
	245-W06-1T	0.250"	5/16"		
	245-021	0.312"	3/8"		
	245-022	0.375"	15/32"	White	
	245-023	0.437"	17/32"		
	245-024	0.500"	37/64"		
245-025	0.562"	21/32"			
0.125"	245-H03-1W	0.625"	23/32"	Black	40
	245-027	0.687"	25/32"	White	35
	245-028	0.750"	59/64"	Black	30
	245-029	0.812"	57/64"	White	25
	245-030	0.875"	1-1/64"	Black	20
	245-W05-1T			White	15
	245-032	1.000"	1-13/64"	Black	10
	245-033			White	6
	245-034	1.093"	1-7/32"	Black	5
	245-035	1.187"	1-5/16"	White	
	245-036	1.250"	1-3/8"	Black	
	245-037	1.375"	1-1/2"	White	4
	245-038	1.500"	1-43/64"	Black	
	245-039	1.750"	1-29/32"	White	
	245-040	2.000"	2-9/64"	White	

CATALOG 14

SPAENAUR

Diesel Fuel Injector Cap



SPAENAUR No. 317-514

Colour:
Blue

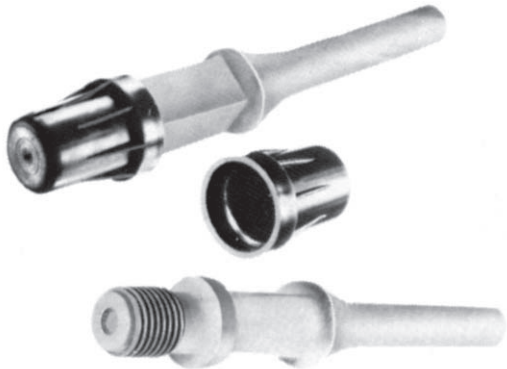
Material:
Low Density
POLYETHYLENE

Temperature Range:
-35°C to +85°C

PKG QTY. 10

Rod-End Protective Caps

Specially designed cap protects threaded ends of rods from impact damage. Made of durable high-strength plastic, they have multiple reinforcing ribs to enhance wear life,

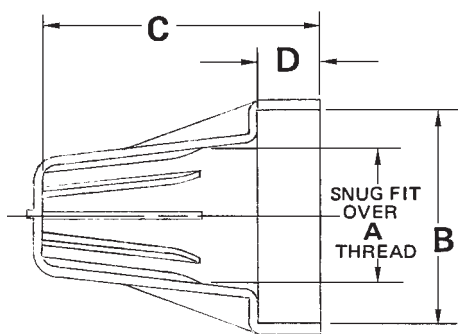


For protecting from damage in transit or in storage, the threaded ends of Piston-like oil extraction rods. These rods, usually some **7-1/2 metres** (approx. 25 ft.) long and known as 'sucker-rods', are used extensively in oil fields for extracting oil from the ground.

Colour: Black
Material: Durable
POLYETHYLENE

and a tapered interior to insure a tight fit. The caps are also used to provide a paint mask for rod threads.

Stock Sizes: To accommodate 5/8", 3/4", 7/8" and 1" threads.

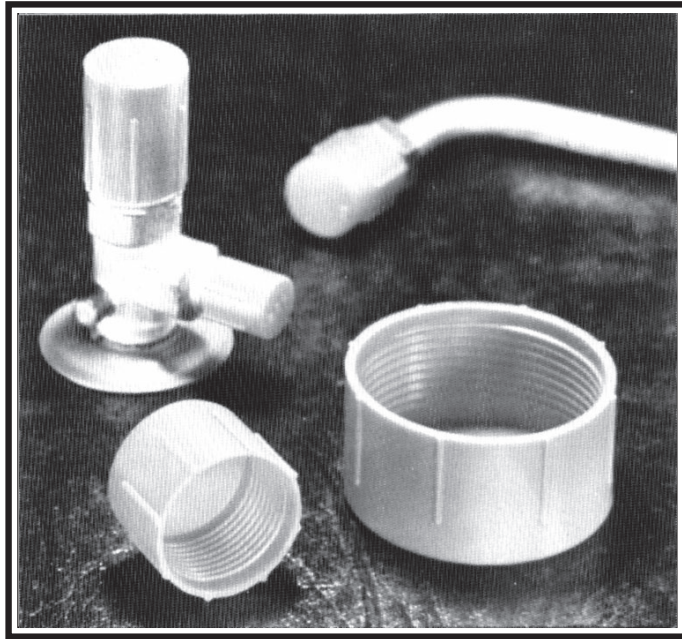
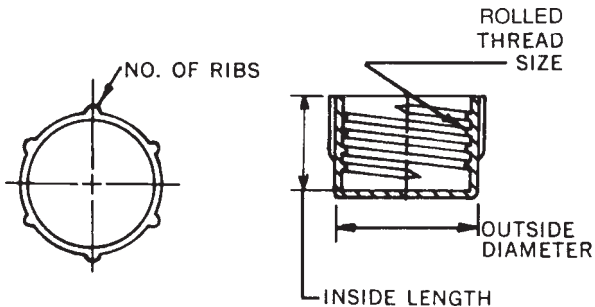


SPAENAUR No.	Nominal *Thread Size	DIMENSIONS				PKG QTY.
		A	B	C	D	
317-515	5/8"	15/16"	1-1/4"	1-5/8"	5/16"	50
317-516	3/4"	1-1/16"	1-1/2"	1-7/8"	11/32"	25
317-517	7/8"	1-3/16"	1-5/8"	2-1/16"	3/8"	20
317-518	1"	1-3/8"	2"	2-13/32"	7/16"	10

Temperature Range: -48°C to +82°C

*Special Series NPT-10TPI

Ribbed, threaded cap provides durable protection for male threads on Standard threaded studs and fittings. Because of its excellent seal, the TC Series is a popular mask for painting and plating.



**TC Series
Standard Threaded Caps**

SPAENAUR No.	UNIFIED THREAD SIZE	NOM. TUBING SIZE	DIMENSIONS			PKG QTY.
			OUTSIDE DIAMETER	INSIDE LENGTH	NO. RIBS	
317-336	3/8"-24	3/16"	7/16"	7/16"	6	100
317-337	7/16"-20	1/4"	1/2"	15/32"	6	50
317-338	7/16"-24	1/4"	1/2"	5/16"	6	50
317-W04-1K	1/2"-20	5/16"	9/16"	5/16"	6	50
317-W10-1A	1/2"-20	5/16"	9/16"	1/2"	6	50
317-341	1/2"-20	5/16"	9/16"	7/8"	6	50
317-342	9/16"-18	3/8"	5/8"	1/2"	6	50
317-343	5/8"-18	3/8"	11/16"	15/32"	6	50
317-W63-1C	5/8"-18	3/8"	11/16"	19/32"	6	50
317-346	5/8"-18	3/8"	11/16"	3/4"	6	50
317-344	5/8"-20	-	11/16"	5/8"	6	50
317-W52-1N	5/8"-24	-	11/16"	3/8"	6	50
317-348	3/4"-16	1/2"	13/16"	1/2"	6	25
317-349	3/4"-16	1/2"	13/16"	9/16"	6	25
317-351	3/4"-18	-	13/16"	11/16"	6	25
*317-352	3/4"-20	-	13/16"	7/16"	6	25
317-W53-1T	7/8"-14	5/8"	15/16"	23/32"	6	25
317-354	7/8"-18	5/8"	15/16"	25/32"	6	25
317-355	7/8"-20	5/8"	15/16"	23/32"	6	25
317-W01-1C	1"-14	-	1-1/16"	25/32"	8	25
317-357	1"-20	-	1-1/16"	25/32"	8	25
317-358	1-1/16"-12	3/4"	1-5/32"	13/16"	8	25
317-359	1-1/16"-14	3/4"	1-5/32"	13/16"	8	25
317-W64-1N	1-1/8"-18	-	1-7/32"	15/32"	8	10
317-W41-1T	1-1/4"-18	-	1-3/8"	15/32"	8	10
317-363	1-5/16"-12	1"	1-7/16"	7/8"	8	10
317-364	1-3/8"-18	1"	1-1/2"	15/32"	8	10
317-W45-1X	1-5/8"-12	1-1/4"	1-3/4"	29/32"	8	10

Colour:

Orange

*Orange or Red, our option.

Material:

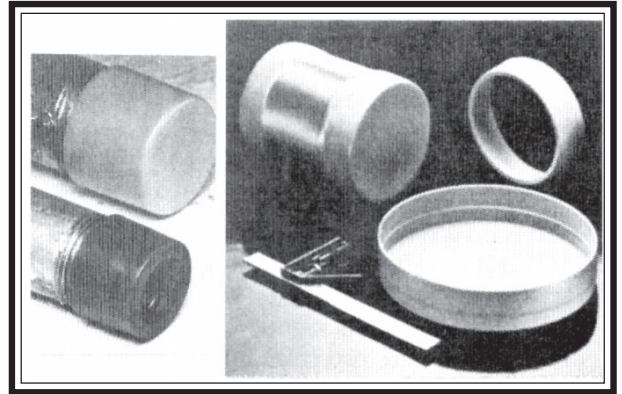
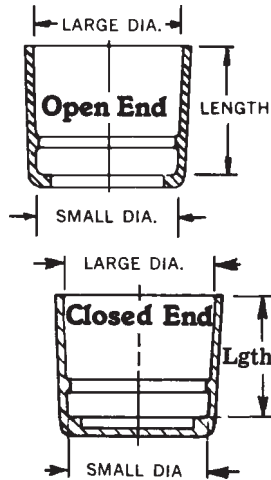
Low Density
POLYETHYLENE

J

Both Open-End and Closed-End Protectors are made to completely cover the threads of conduit pipe.

Smooth sided caps are designed to work well with automatic vibrating feeders...and utilize an internal bead to hold on tight when the handling gets rough.

Major producers of iron, steel and aluminum pipe and tubing use these unique protectors for safer, damage-free shipments.



Open-End Pipe Thread Protectors

Material: Low Density POLYETHYLENE

SPAENAUR No.	N.P.T. SIZE	DIMENSIONS				PKG QTY.
		SMALL DIA.	LARGE DIA.	LENGTH	COLOR	
317-501	1/2"	.810"	.830"	.775"	Black	50
317-502	3/4"	1.025"	1.050"	.775"	Red	50
317-503	1"	1.283"	1.315"	.980"	Blue	50
317-505	1-1/4"	1.627"	1.650"	1.000"	Red	25
317-506	1-1/2"	1.866"	1.890"	1.090"	Black	25
317-507	2"	2.328"	2.363"	1.170"	Blue	10
317-508	2-1/2"	2.820"	2.875"	1.500"	Black	10
317-509	3"	3.441"	3.500"	1.575"	Blue	10
317-510	3-1/2"	3.938"	4.000"	1.625"	Black	10
317-524	4"	4.434"	4.500"	1.725"	Black	5
317-512	5"	5.448"	5.563"	1.825"	Blue	5

Closed-End Pipe Thread Protectors

SPAENAUR No.	N.P.T. SIZE	DIMENSIONS				PKG QTY.
		SMALL DIA.	LARGE DIA.	LENGTH	COLOR	
317-W06-1M	1/4"	.522"	.540"	.625"	Orange	50
317-483	3/8"	.656"	.675"	.590"	Orange	50
317-484	1/2"	.810"	.830"	.775"	Black	50
317-485	3/4"	1.025"	1.050"	.775"	Red	50
317-486	1"	1.283"	1.315"	.980"	Black	50
317-W36-1Y	1-1/4"	1.627"	1.650"	1.000"	Red	25
317-488	1-1/2"	1.866"	1.890"	1.090"	Black	25
317-491	2-1/2"	2.820"	2.875"	1.500"	Black	10
317-W77-1T	3"	3.441"	3.500"	1.575"	Black	10
317-493	3-1/2"	3.938"	4.000"	1.625"	Black	10
317-496	5"	5.448"	5.563"	1.825"	Blue	5
317-497	6"	6.546"	6.625"	1.825"	Blue	5
317-498	8"	8.507"	8.625"	1.875"	Blue	5

CATALOG 14.10 SPAENAUR

Square Head

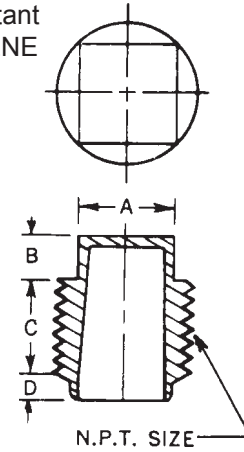
Hollow threaded plug prevents damage to tapped holes, and provides low cost protection, (less than metal), during low pressure testing, shipping, or in-plant handling. Durable plug is easily tightened with fingers or wrench.

TP Series Square Head

Colour: Black

Material: Oil and Heat (121° C) Resistant High Density POLYETHYLENE

SPAENAUR No.	N.P.T. SIZE	DIMENSIONS				PKG QTY.
		A	B	C	D	
317-367	1/8"-27	9/32"	1/4"	5/16"	1/16"	100
317-368	1/4"-18	3/8"	1/4"	3/8"	1/16"	50
317-369	3/8"-18	7/16"	1/4"	7/16"	1/16"	50
317-370	1/2"-14	9/16"	1/4"	1/2"	1/16"	50
317-371	3/4"-14	5/8"	1/4"	9/16"	3/32"	25
317-372	1"-11-1/2	13/16"	1/4"	5/8"	3/32"	25
317-373	1-1/4"-11-1/2	1"	3/8"	7/8"	1/8"	10
317-374	1-1/2"-11-1/2	1-1/4"	3/8"	7/8"	1/8"	10



Flanged Square Head

Hollow threaded plug locks into position for an extra tight seal due to flanged sealing surface and cannot be forced thru opening.

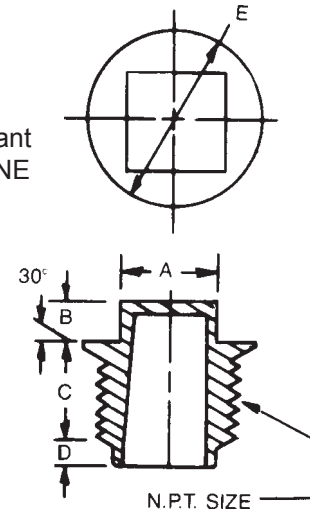
TP-F Series Flanged Square Head

Colour: Black

Material: Oil and Heat (121° C) Resistant High Density POLYETHYLENE

SPAENAUR No.	N.P.T. SIZE	DIMENSIONS					PKG QTY.
		A	B	C	D	E	
*317-375	1/8"-27	7/16"	3/16"	9/32"	3/32"	9/16"	100
317-376	1/4"-18	7/16"	1/4"	11/32"	3/32"	11/16"	50
317-377	3/8"-18	7/16"	1/4"	13/32"	3/32"	13/16"	50
317-378	1/2"-14	9/16"	1/4"	13/32"	3/32"	1"	25
317-379	3/4"-14	5/8"	1/4"	17/32"	1/8"	1-1/4"	25

*Across Flats - Hexagonal Head Style.



Hexagonal Socket

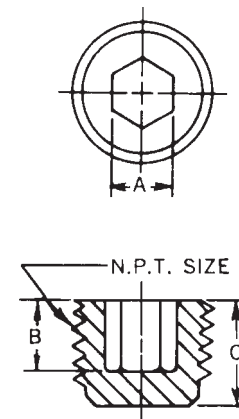
A solid threaded plug offering exceptional strength as a temporary or permanent closure. Hex socket receives standard Allen wrench sizes for easy tightening.

TH Series Hexagonal Socket

Colour: Black

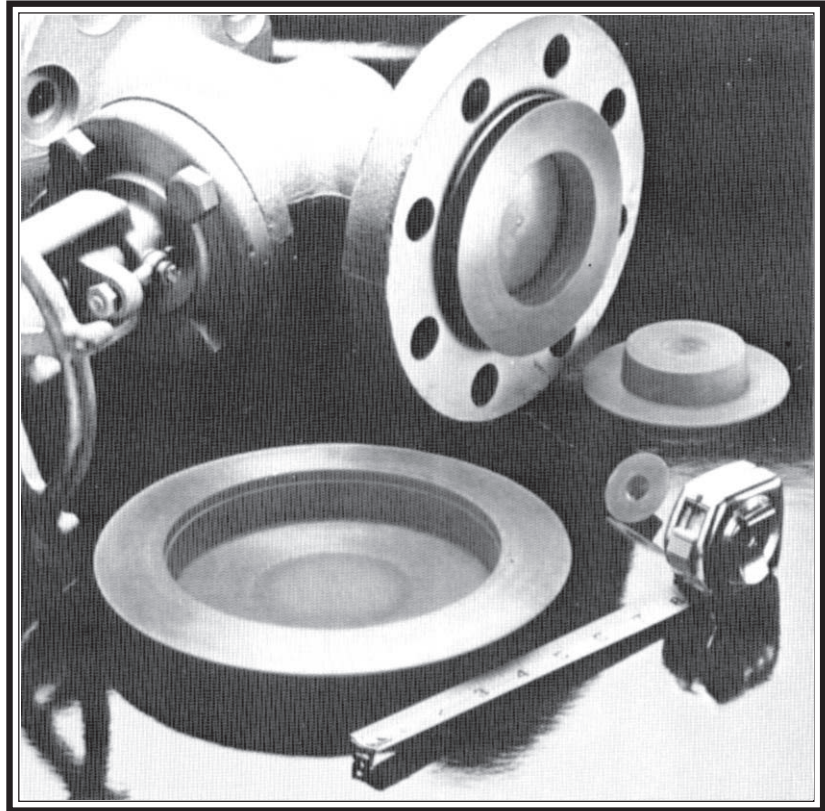
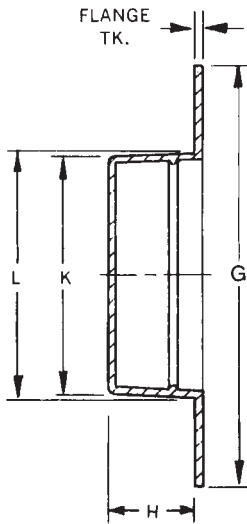
Material: Oil and Heat (121° C) Resistant High Density POLYETHYLENE

SPAENAUR No.	N.P.T. SIZE	DIMENSIONS			PKG QTY.
		A	B	C	
317-380	1/4"-18	1/4"	5/16"	1/2"	100
317-381	3/8"-18	5/16"	3/8"	9/16"	100
317-382	1/2"-14	3/8"	3/8"	9/16"	50
317-383	3/4"-14	9/16"	1/2"	5/8"	25
317-385	1"-11-1/2	5/8"	17/32"	3/4"	10



J

Protector's wide rim is designed to cover the entire machined sealing surface of a valve flange threads. Protector is ideal for most petroleum, water and gas type valves with NPT sizes to fit most valve poundages (150-600 lbs.). Tapered body fits tight to seal against dirt or damage.



Colour: Orange

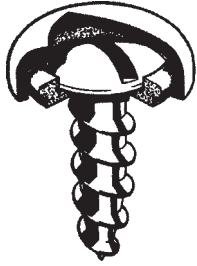
Material: Low Density
POLYETHYLENE

Valve Flange Protectors

SPAENAUR No.	PIPE FLANGE SIZE	FLANGE TK.	DIMENSIONS				PKG QTY.
			G	H	K	L	
317-386	1/2"	.030"	1-7/16"	1/2"	.540"	.585"	50
317-387	3/4"	.030"	1-3/4"	1/2"	.710"	.755"	25
317-388	1"	.030"	3-1/16"	5/8"	.940"	.995"	10
317-389	1-1/4"	.040"	3-9/16"	5/8"	1.375"	1.440"	10
317-390	1-1/2"	.040"	2-15/16"	3/4"	1.610"	1.675"	10
317-391	2"	.050"	4-11/16"	3/4"	2.060"	2.165"	10
317-392	2-1/2"	.050"	4-1/4"	3/4"	2.460"	2.570"	10
317-393	2-1/2"	.050"	5-1/4"	3/4"	2.455"	2.560"	10
317-394	3"	.050"	6-1/8"	3/4"	3.045"	3.195"	10
317-395	3-1/2"	.060"	5-5/8"	3/4"	3.530"	3.650"	10
317-396	4"	.060"	6-5/16"	1"	3.965"	4.190"	10
317-397	5"	.060"	7-1/2"	1"	5.015"	5.230"	5

For a reference chart on Plastics Properties see page R20.

Snapcaps



Attractively conceal screw heads of all types, nails, rivets, washers, pop rivets and bolts.

HOW TO ORDER

1. Select by screw gauge size appropriate washer base, either flat or countersunk, from charts at right. (Base colour is not important as cap will completely cover.)
2. Select colour of Snapcap from chart below, using same screw gauge size as for washer base.

Snapcaps and washers must be ordered separately.

PKG QTY. 100

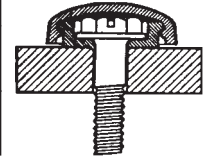
Made in colours, to match leather, vinyl, wood and metals.

Material: UV Stabilized Polypropylene

Temperature Range: -40°C to +150°C.

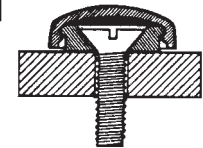
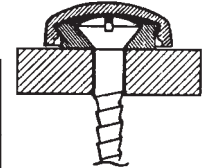
Flat Washer Base

For Screw Dia.	SPAENAUR No.
6 to 8 ga. or M4	315-906 5/16" I.D.
10 ga. or M5	317-472 29/64" I.D.
12 to 14 ga. or M6	315-G03-1W 29/64" I.D.



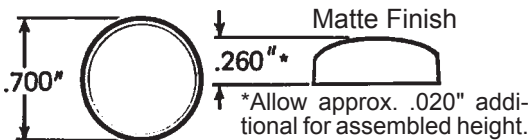
Countersunk Washer Base

6 to 8 ga. or M4	315-910
10 to 12 ga. or M5	315-911



COLOUR of CAPS	6 ga. to 8 ga. or M4 17/32" O.D., 13/64" O.H.	10 ga. to 14 ga. or M5 to M6 41/64" O.D., 15/64" O.H.
	ORDER BY SPAENAUR NUMBERS LISTED BELOW	
White Satin	315-902	315-903
White Antique	315-912	315-926
Canary Yellow	315-913	315-927
Pastel Gold	315-914	315-928
Honey Maple	315-915	315-929
Mahogany	315-916	315-930
Sandalwood	315-917	315-931
Olive Green	315-918	315-932
Royal Blue	315-919	315-933
Smith Red	315-920	315-934
Black Satin	315-921	315-935
Teak	315-922	315-936
Silver Metallic	315-923	315-937
Gold Metallic	315-924	315-938
Cream	315-943	315-966

POP-ON SCREW COVERS and BASES for 1/4" (M6) Dia. Screws



SCREW COVERS

SPAENAUR No.	Colour	SPAENAUR No.	Colour
315-953	White	315-960	Tan
315-954	Cream	315-961	Choc. Brown
315-955	Light Beige	315-101-1T	Med. Brown
315-956	Oyster White	315-963	Black
315-957	Light Grey	315-964	Pacific Blue
315-958	Dark Grey		

Cover Material: UV Stabilized Polypropylene

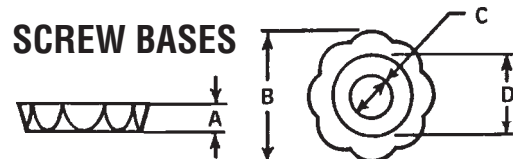


Flat Washer Base



Ctsk. Washer Base

SCREW BASES



Washer Base Material is Nylon - Natural Colour

Flat Washer Base for Round and Pan Head Screws

SPAENAUR No.	A	B	C	D
315-951	.125"	.620"	.245"	.490"

Countersunk Washer Base for Countersunk Screws

315-952	.130"	.620"	.245"	-
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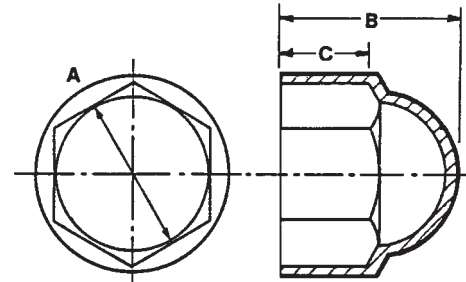
Pop-on Covers and Bases must be ordered separately.

PKG QTY. 100

INCH & METRIC SIZES

Bolt and Nut Protection Caps

White/Black Low Density Polyethylene



SPAENAUR No.		To fit Bolt & Nut Size	A Width Across Flats	B Overall Height	C Inside Hex Height	PKG QTY.
Black	White					
INCH SIZES						
315-101	315-102	1/4"	.425"	1/2"	.210"	100
315-G01-1T	315-G59-1C	5/16"	.484"	5/8"	9/32"	100
315-105	315-106	3/8"	.544"	11/16"	5/16"	100
METRIC SIZES Dimensions in Millimeters						
315-819	315-688	M5	7.9	9.2	4.3	100
315-820	315-689	M6	9.8	13.0	5.7	100
315-821	315-690	M8	12.8	15.0	7.9	100
315-822	315-691	M10	16.8	19.5	8.8	100
315-823	315-692	M12	18.8	21.2	11.1	100
315-824	315-693	M14	21.8	23.8	11.6	100
315-825	315-694	M16	23.8	26.8	14.3	100
315-826	315-695	M18	26.8	29.3	16.8	50
315-827	315-696	M20	29.8	32.0	18.3	50
315-828	315-697	M22	31.8	35.7	19.2	50
315-829	315-698	M24	35.7	40.2	20.7	25

FASTENER WASHERS

UV Stabilized Polypropylene

Note:
This line of covers and washers is being gradually phased out.

Colour: **Natural**

Size No. 8

For use with 8 ga. (Inch) Screws or **M4 (Metric)** Screws.



FLAT Bottom WASHER

315-906



COUNTERSUNK Bottom WASHER

315-910

Size No. 10

For use with 10 ga. (Inch) Screws or **M5 (Metric)** Screws.



FLAT WASHER

654-G07-1T

The Washer **Colour** is not important.
The cover completely hides it.

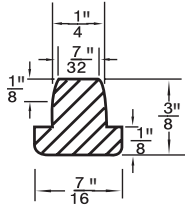
PKG QTY. 100

CATALOG 14.09 SPAENAUR

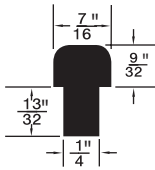
Material: SBR, Natural Rubber or as noted.

Hardness: 50 to 65 Durometer

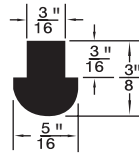
Colour: Black, unless otherwise shown.



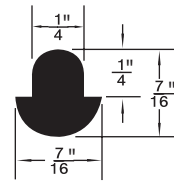
RB-67 (White)
Duro 60-70



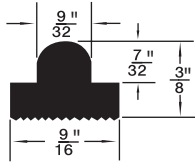
315-467
Polyethylene
(Rigid)



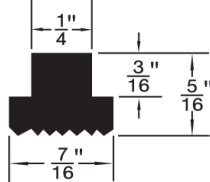
315-H22-1W



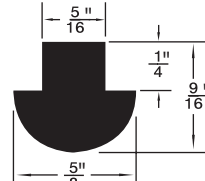
315-015



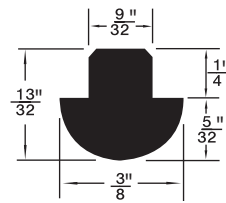
315-016



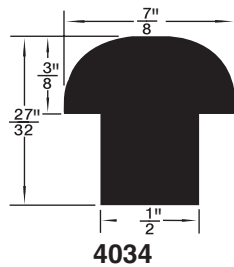
315-014



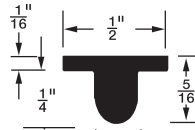
315-017



315-053

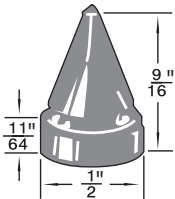


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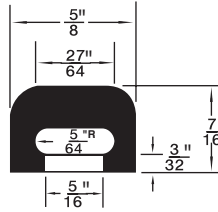
315-H90-1P

Door Silencers

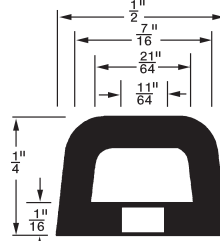


RB-155 (Grey)
Used on
Steel Door Frames

BOLT CAP BUMPER



315-G12-1N
Fits #12 Pan Head



315-289
Fits #8 Pan Head

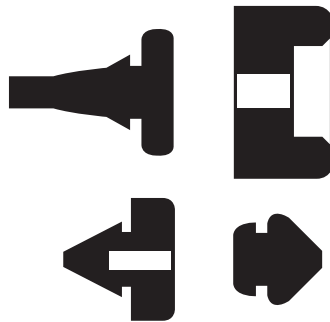
Contact Sales Desk
For Package Quantities

ASSORTMENT 805-621A

General Purpose RUBBER BUMPERS

"Most Popular Selected Sizes"
30 STYLES - 655 PIECES

Large Size Grey enameled Steel Drawer will fit Slide Racks, shown on page A3
Shipping wt. **6.19 kg** (13-1/2 lbs.)



For the complete assortment contents turn to A114

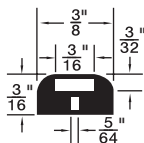
Material: SBR, or as noted.

Hardness: 60 to 70 Durometer.

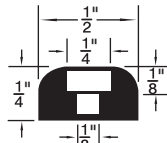
Colour: Black, unless otherwise shown.

RECESS TYPE —No Insert

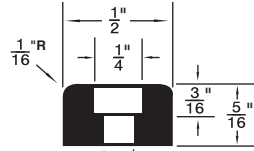
Contact Sales Desk For Package Quantities



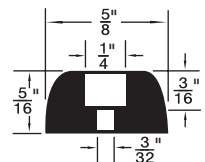
RB-61



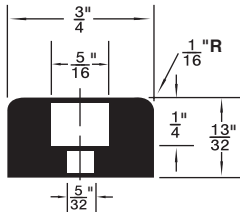
315-H76-1P



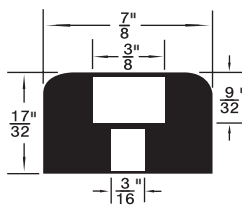
315-G35-1C



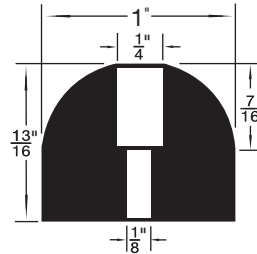
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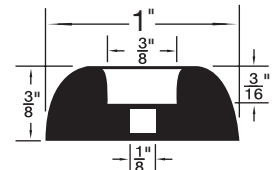
315-010



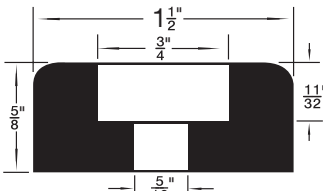
4243



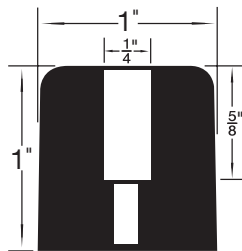
315-044



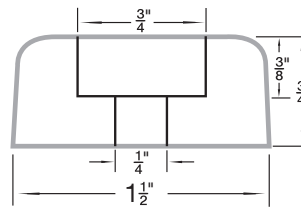
315-G68-2A White



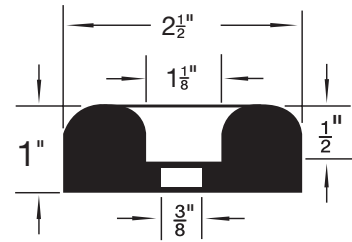
315-I02-1K



315-G30-1M



315-G55-1X White



315-H50-1X

Plastic Feet (Recess Style) and Case Bumpers

Non-marking



PKG QTY. 50

MATERIAL

Polyethylene = 1

Polyastomer = 2

*Grey

SPAENAUR No. Colour		Material	DIMENSIONS (in inches)				
Black	White		A	B	C	D	E
*315-G36-1N	—	2	1/4	1/2	1/8	1/8	9/32
315-475	315-476	1	1/4	1/2	3/32	9/64	1/4
315-477	315-478	2	1/4	1/2	1/8	5/32	9/32
315-479	315-480	1	3/8	3/4	1/4	5/32	3/8
315-481	315-482	2	7/16	5/8	1/4	5/32	21/64
315-483	—	1	1/2	7/8	3/8	3/16	3/8
315-484	—	1	1/2	7/8	3/8	5/32	3/8
315-485	315-575	1	5/8	7/8	3/16	3/16	3/8
315-486	—	1	5/8	1	5/16	13/64	11/32
315-487	—	1	1	1-1/8	9/16	1/4	15/32
315-645	—	1	3/4	1-1/8	5/16	13/64	17/32

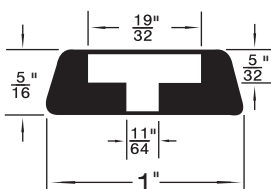


POLYLASTOMER

Brown Colour

Duro 75

Type 2



315-G40-1K
PKG QTY. 50

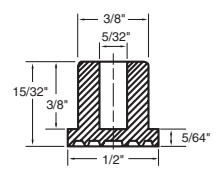


THE GRIPPER

Non-walking Appliance Foot

(Suitable for Motorized Counter-top Appliances)

Made of FDA-approved polyastomer.



White, Non-staining

SPAENAUR No.
315-171

PKG QTY. 100

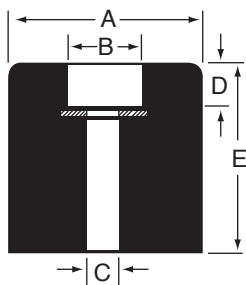
Material: SBR

Hardness: 60 Durometer ±5. **Colour:** Black, unless otherwise shown.

RECESS TYPE – WITH STEEL WASHER INSERT

Listed by 1) Outside Dia.
2) Height.

STYLE A Flat Top

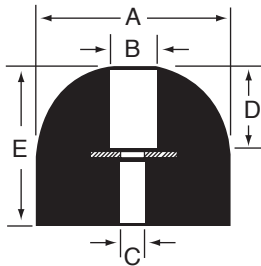


SPAENAUR No.	A O.D.	B Recess Dia.	C Bore Dia.	D Recess Depth	E O/A Height
315-G52-2K	1/2"	5/16"	5/32"	3/16"	3/8"
315-007	17/32"	1/4"	1/8"	5/32"	9/32"
315-038	5/8"	9/32"	5/32"	1/8"	9/32"
*315-H31-1N	5/8"	9/32"	5/32"	1/4"	13/32"
315-H23-1M	5/8"	9/32"	5/32"	1/4"	13/32"
RB-183	21/32"	5/16"	5/32"	1/4"	1/2"
*315-I19-1P	5/8"	5/16"	5/32"	1/4"	1/2"
315-H96-1W	23/32"	1/4"	1/8"	7/32"	7/16"
•315-I16-1M	23/32"	5/16"	3/16"	3/16"	13/32"
315-H35-1M	3/4"	5/16"	5/32"	1/4"	13/32"
RB-187	3/4"	3/8"	5/32"	1/4"	1"
315-G50-1N	3/4"	3/8"	3/16"	1/4"	9/16"
315-H36-1X	51/64"	11/32"	11/64"	1/4"	25/32"
315-H64-1P	1"	5/16"	5/32"	1/8"	1/4"
315-261	1"	1/2"	7/32"	1/4"	1/2"
315-G53-1W	1"	3/8"	5/32"	1/4"	1"
•315-I20-1A	1"	17/32"	9/32"	5/16"	9/16"
315-H27-2Y	1-1/2"	3/4"	5/16"	11/32"	5/8"
315-G27-1A	1-1/2"	3/4"	1/4"	3/8"	3/4"
RB-188	1-1/2"	3/4"	1/4"	3/8"	1-1/2"

*White Colour

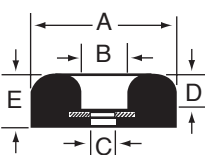
•Duro 60 to 70 +/- 5

STYLE B Rounded Top



SPAENAUR No.	A O.D.	B Recess Dia.	C Bore Dia.	D Recess Depth	E O/A Height
315-302	1/2"	1/4"	1/8"	3/16"	11/32"
B-871	1"	1/4"	1/8"	7/16"	13/16"
315-253	1"	5/16"	5/32"	5/8"	1"
315-256	1-3/32"	7/16"	3/16"	13/32"	5/8"

STYLE C Rounded Recess Top



SPAENAUR No.	A O.D.	B Recess Dia.	C Bore Dia.	D Recess Depth	E O/A Height
315-H28-1C	3/4"	1/4"	1/8"	11/64"	17/64"
315-272	1"	3/8"	3/16"	3/16"	7/16"
315-H58-1W	1"	3/8"	3/16"	1/4"	17/32"

Contact Sales Desk For Package Quantities

J

Material: SBR

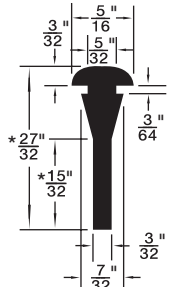
Hardness: 50 to 65 Durometer, unless otherwise indicated.

Colour: Black, unless otherwise shown.

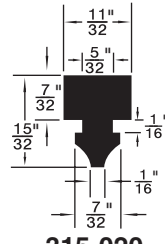
Listed by 1) Groove Dia. 2) O/A Head Dia.

* Dimension preceded by an asterisk are for reference only, as tab to set them may vary in length.

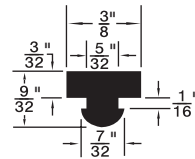
MUSHROOM OR BUTTON TYPE



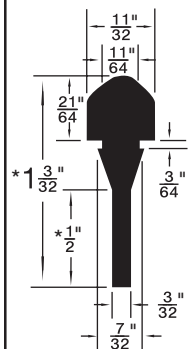
315-G19-1P



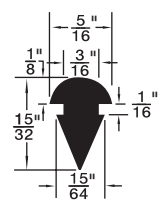
315-020



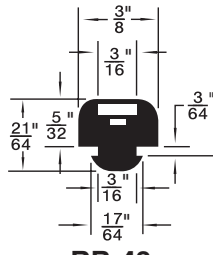
4154



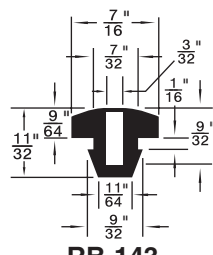
RB-71



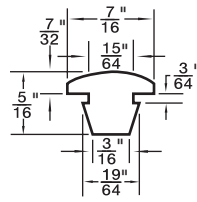
315-G25-1M



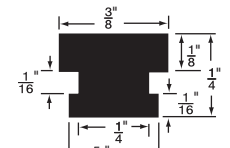
RB-43



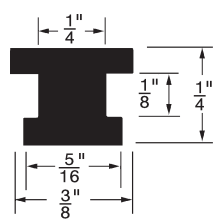
RB-143



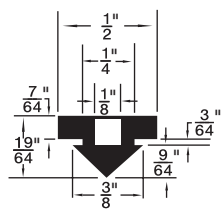
RB-116
White



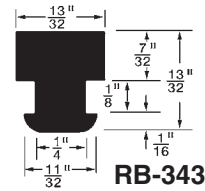
315-287



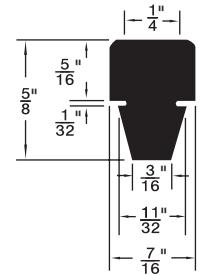
315-264



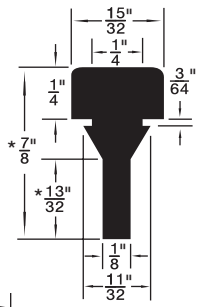
315-004



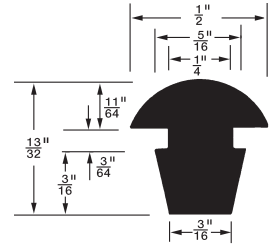
RB-343



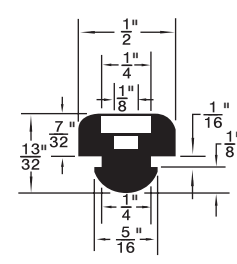
315-054



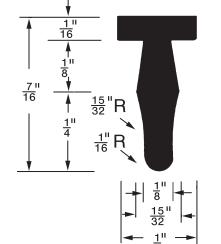
RB-35



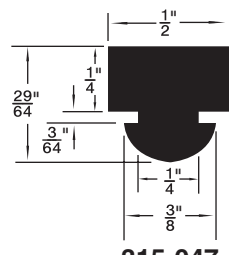
315-311



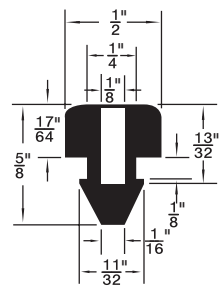
RB-44



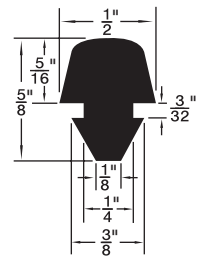
315-H92-1C



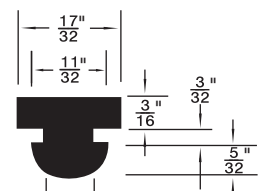
315-047



RB-25



315-H75-1A



315-032 Black
315-037 Grey

CATALOG 14

SPAENAUR

Contact Sales Desk For Package Quantities

Material: SBR

Hardness: 50 to 65 Durometer, unless otherwise indicated.

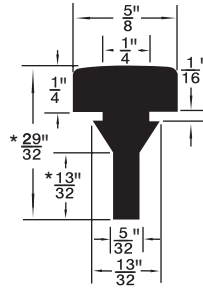
Colour: Black, unless otherwise shown.

* Dimension preceded by an asterisk are for reference only, as tab to set them may vary in length.

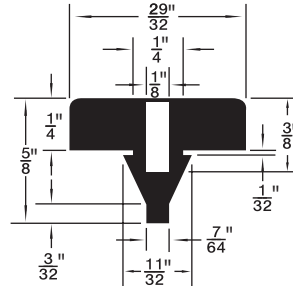
Continued from Previous Page

MUSHROOM OR BUTTON TYPE

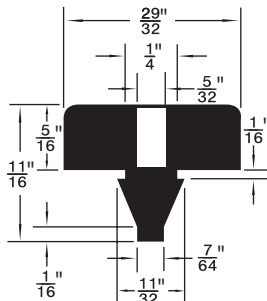
Listed by 1) Groove Dia. 2) O/A Head Dia.



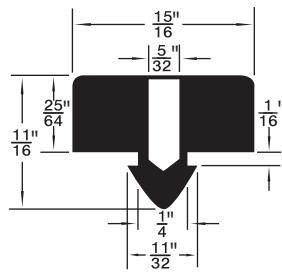
315-G70-1A



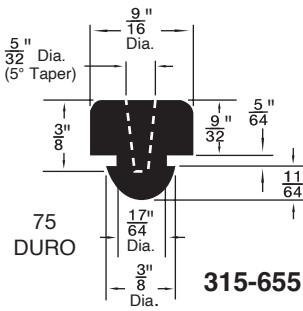
315-H97-1M



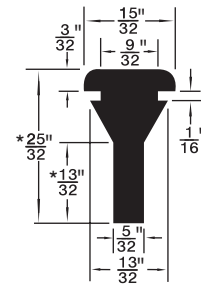
RB-127



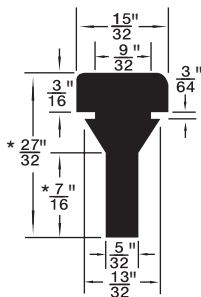
315-031



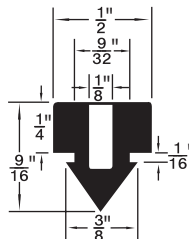
315-655



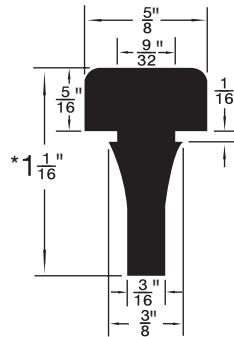
315-G28-1P
Duro 40 ± 5



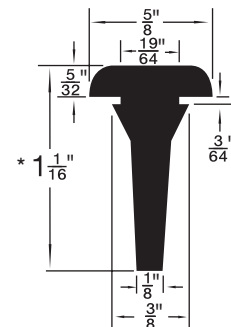
4155



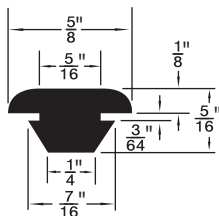
315-G62-2N



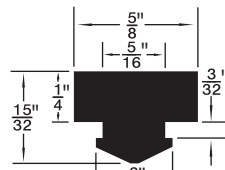
315-H38-2P
Duro 40 ± 5



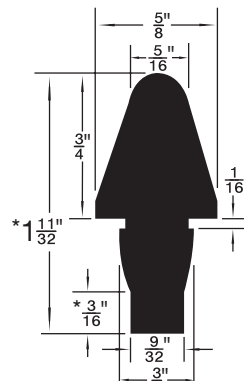
4224
Duro 50 ± 5



315-H49-1A



315-H85-1M

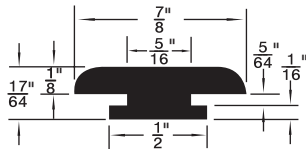


RB-21

Contact Sales Desk For
Package Quantities

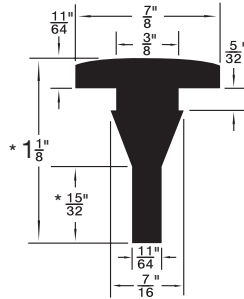
Continued from Previous Page

MUSHROOM OR BUTTON TYPE - SBR

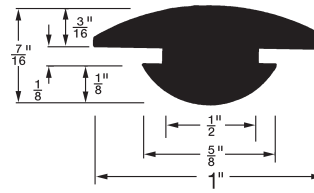


RB-302
No-hole Plug Type
PKG QTY. 100

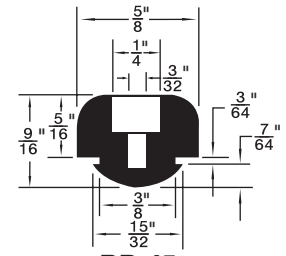
Listed by 1) Groove Dia.
2) O/A Head Dia.



B-1220
PKG QTY. 25



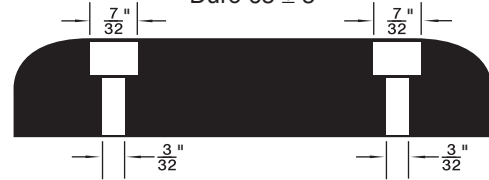
315-271
PKG QTY. 25



RB-45
PKG QTY. 25

BAR PATTERN BUMPERS

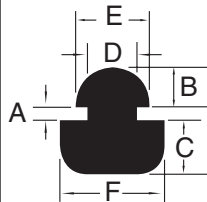
Duro 65 ± 5



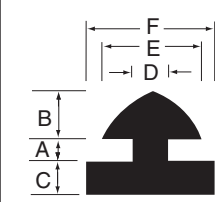
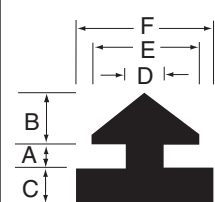
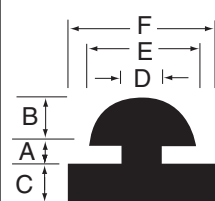
Spaenaur No.	Length	Width	Height
315-030 White	2-1/2"	1/2"	1/2"
315-077 Black	2-1/2"	1/2"	1/2"

PKG QTY. 25

Listed by 1) Groove Dia.
2) Head Dia.



SPAENAUR No.	A Groove Width	B Stem Length	C Head Height	D Groove Dia.	E Stem Dia.	F Head Dia.	PKG QTY.
315-301	1/16"	1/8"	5/32"	1/4"	5/16"	1/2"	25
315-H89-1Y	1/8"	11/64"	11/32"	9/32"	7/16"	5/8"	100
315-082	1/32"	1/8"	3/32"	5/32"	7/32"	3/8"	25
315-277	1/16"	1/8"	1/4"	1/4"	5/16"	1/2"	
315-H66-1C	1/8"	1/8"	1/8"	1/4"	11/32"	9/16"	
315-290	5/64"	5/32"	1/8"	9/32"	3/8"	9/16"	
315-278	1/16"	3/32"	5/32"	11/32"	13/32"	9/16"	
315-H79-1N	3/16"	3/16"	5/16"	1/2"	11/16"	1	
315-280	3/64"	3/32"	1/8"	3/16"	1/4"	5/16"	25
315-275	3/64"	1/8"	3/32"	1/4"	5/16"	7/16"	
315-279	3/64"	1/8"	3/16"	1/4"	5/16"	7/16"	
315-H93-1N	1/16"	3/16"	3/32"	3/16"	1/4"	1/2"	25



Inch

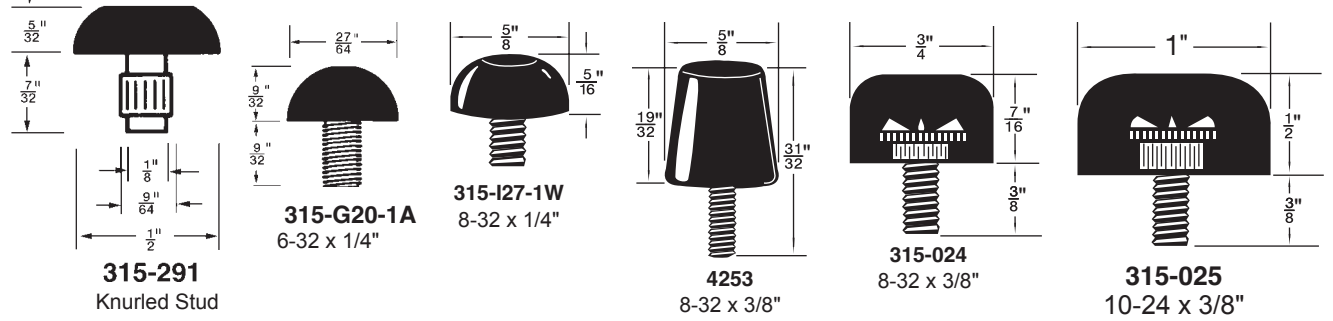
Rubber Bumpers / Plug Buttons Assortment

Pouce

Butoirs en caoutchouc / Assortiment de boutons-poussoirs

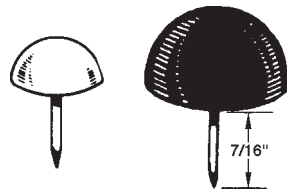
RUBBER BUMPERS - with Moulded in Screw, Stud or Tacks - Black, unless otherwise shown. SBR, 70 Durometer

PKG QTY. 25



See Pages J4 to J8 for larger Bolt Bumpers

RUBBER TACK BUMPERS



(Elastomeric Polyethylene)

SPAENAUR No.		Size	
Black	White	Dia.	Height
B-407	RB-174	3/8"	7/32"
315-G54-2M	RB-96	1/2"	1/4"
B-409	315-H99-1A	5/8"	5/16"
RB-179	RB-176	3/4"	11/32"

Tacks Protrude 3/8" min. to 7/16" max.

PKG QTY. 100

GLIDES and TUBING INSERT PLUGS on pages F2 to F10 & H2-H4.

ASSORTMENT A-206A

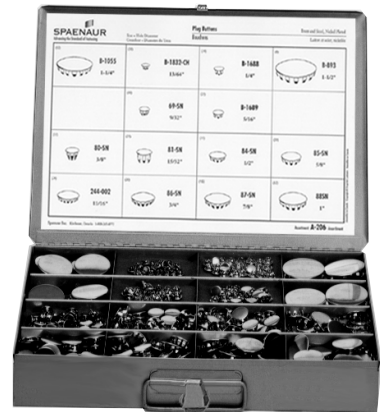
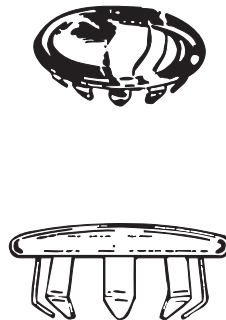
PLUG BUTTONS Brass and Steel

Nickel Plated Finish.

14 SIZES - 312 PIECES

Furnished in Regular Size grey enamelled steel drawer with scooped bins for easy access. Drawer will fit into Slide Racks shown on page A2

Shipping Weight: **2.49 kg** (5-1/2 lbs.)



Name	Spaenaur No.	Panel Thickness Range	Compatible Hole Size	Outside Diameter	Qty.	Page
Plug Buttons Standard Type Brass - Coated	B-1689	0.020" - 0.062"	5/16"	7/16"	25	H2
	69-SN	0.032" - 0.046"	9/32"	13/32"		
	244-A02-1Y	0.035" - 0.062"	1/4"			
	84-SN	0.037" - 0.062"	1/2"	21/32"	35	
	80-SN	0.037" - 0.078"	3/8"	17/32"		
	86-SN	0.037" - 0.093"	3/4"	15/16"	20	
	B-1835N	0.062" - 0.078"	7/32"	11/32"		
	85-SN		5/8"	51/64"		
	87-SN	0.062" - 0.093"	7/8"	1-1/16"	15	
	244-A01-1P	0.062" - 0.078"	1"	1-5/32"	12	
243-E01-1Y	0.062" - 0.093"	1-1/4"	1-7/16"			
Plug Buttons - Standard Type - Steel - Coated	B-893	1/32" - 1/16"	1-1/2"	1-41/64"	8	H2
Plug Buttons - Standard Type - Plain	244-001	1/32" - 3/32"	11/16"	7/8"	20	
	81-SN	7/64" - 11/64"	15/32"	5/8"	25	

CATALOG 14.11 SPAENAUR

P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com

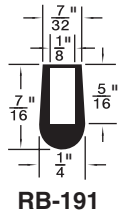
J51

RUBBER TIPS

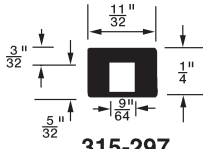
Contact Sales Desk For Package Quantities



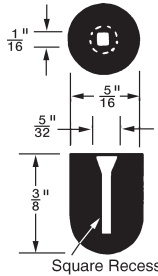
SBR Compound - Black
65 DUROMETER
Unless otherwise noted



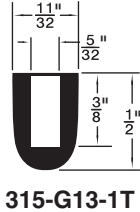
RB-191



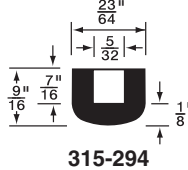
315-297



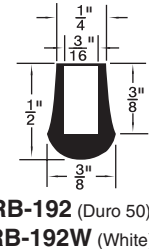
315-251



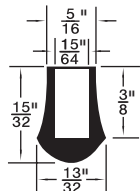
315-G13-1T



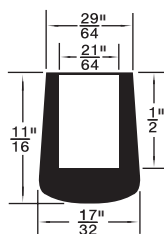
315-294



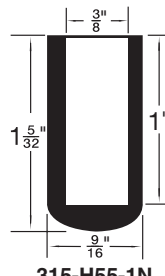
RB-192 (Duro 50)
RB-192W (White) (Duro 70)



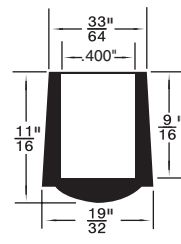
RB-193



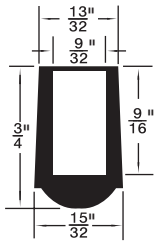
RB-195



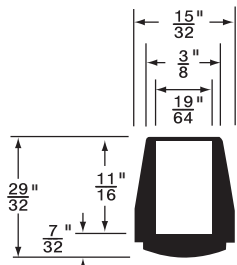
315-H55-1N
Neoprene Duro 60



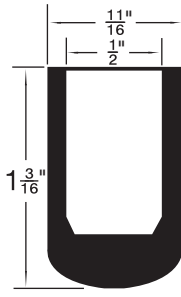
RB-197



RB-194



315-306

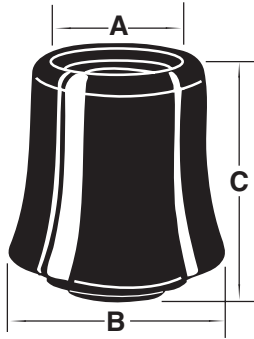


315-H86-1X
Neoprene Duro 60

▲ Also 315-027 I.D. 31/64" /O.D. 5/8" Top, 11/16" Base /O/A Ht. 25/32"

J

CRUTCH-TYPE TIPS Durometer 60

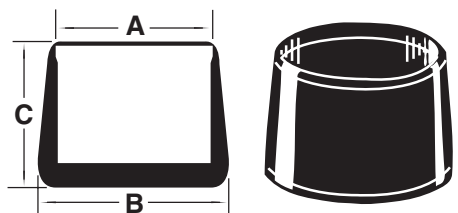


SPAENAUR No.	SIZE No.	A	B	C
RB-203	15	3/8"	3/4"	1-3/16"
RB-205	17	5/8"	1-1/8"	1-3/8"
RB-206	18	3/4"	1-1/4"	1-3/8"
RB-207	19	7/8"	1-5/16"	1-7/16"
315-G63-1T	20	1"	1-7/16"	1-7/16"
*315-079	20	1"	1-7/16"	1-7/16"
*RB-294	21	1-1/8"	1-11/16"	1-13/16"
RB-340	22	1-1/4"	1-11/16"	1-1/2"

Colour: Black (*White)

PKG QTY. 25

TUBING CAP (Black Polyethylene)



PKG QTY. 50

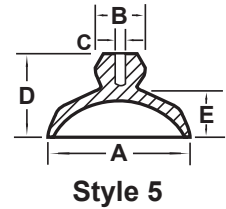
SPAENAUR No.	A	B	C
RB-347	7/8"	15/16"	25/32"
315-036	1"	1-3/16"	13/16"
315-051	1-1/8"	1-9/32"	25/32"

SUCTION CUPS - CLEAR or BLACK PVC - 55 Durometer

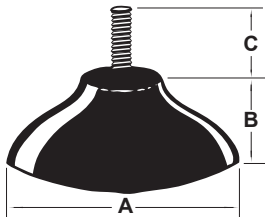
These suction pads are used in a wide variety of applications from toys and games to posters and sun blinds.

METRIC SIZES

SPAENAUR No. Clear PVC	Dimensions (mm)					Style	PKG QTY.
	A	B	C	D	E		
315-H33-1K	25.4	7.9	1.6	17.5	7.9	5	50



INCH SIZES



SUCTION CUPS of 50 Durometer, Isoprene (IR)

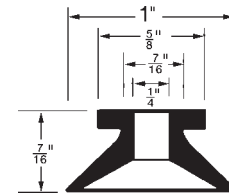
SPAENAUR No.	A O.D.	B Height	C Screw Size	Colour	PKG QTY.
RB-349	1"	7/16"	8-32 x 1/4"	Black	25
RB-350	1-1/4"	1/2"	8-32 x 1/4"	Black	25
■RB-121	1-3/4"	5/8"	8-32 x 3/8"	Black	10

■SBR Material

Suction Cup

Tan Isoprene 30 Durometer

315-I08-1Y

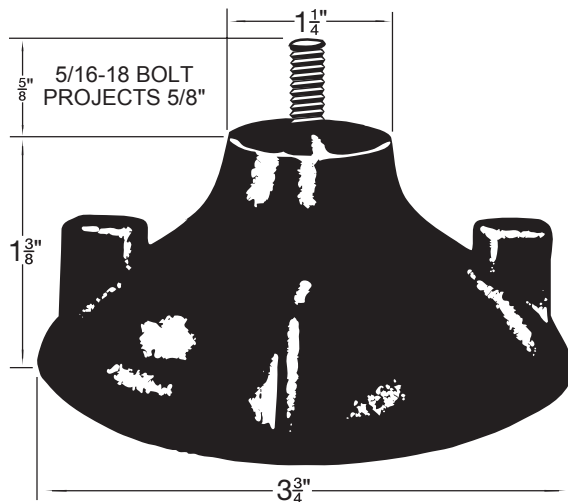


PKG QTY. 25

INCH SIZES

315-029

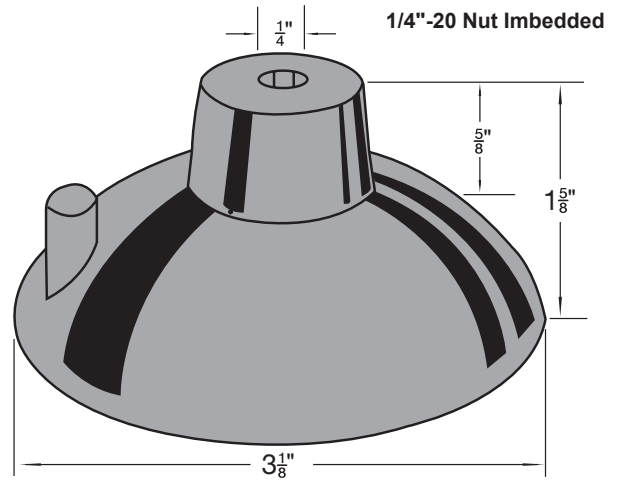
Black SBR
Durometer 50-60



PKG QTY. 4

RB-32

Grey SBR
Durometer 50-60

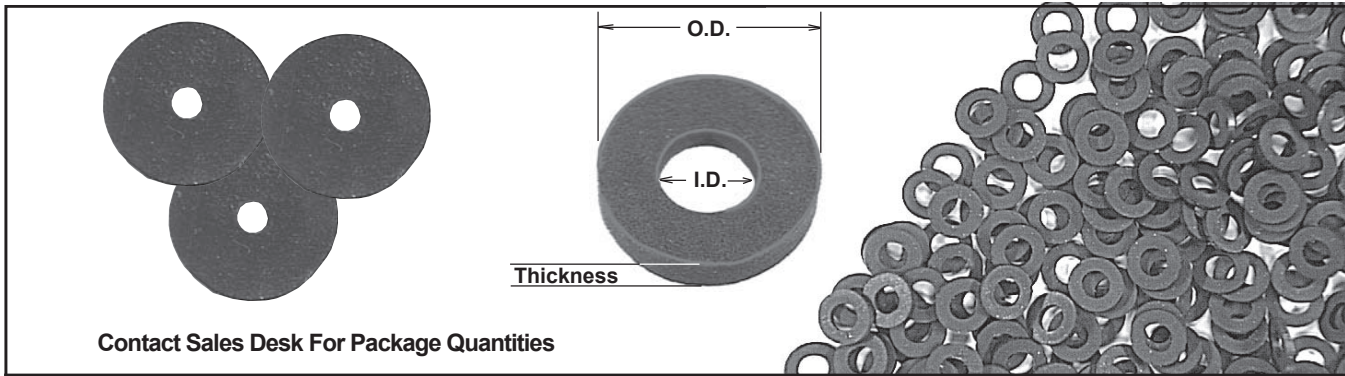


For luggage or car-top carriers, ski racks, boat racks, etc.
Non-staining GREY colour.

PKG QTY. 4

CATALOG 14.04
2019/08/08

SPAENAUR



SPAENAUR No.	I.D.	O.D.	Thickness	Material	Durometer	Colour
RB-374	3/32"	1/2"	1/8"	Neoprene	60-70	Black
315-286	9/64"	3/8"	1/4"	SBR	60	Black
315-G09-1C	5/32"	5/16"	1/32"	Neoprene	75-85	Black
RB-170	5/32"	1/2"	1/4"	Natural Rubber	65-70	Black
RB-291	11/64"	33/64"	3/32"	Neoprene	65-70	Black
315-G05-1X	3/16"	5/8"	3/32"	Neoprene	65-70	Black
315-G21-1C	3/16"	3/4"	1/8"	Nitrile	75-85	Black
B-1253	3/16"	3/4"	9/32"	SBR	65-75	Black
RB-72	3/16"	1"	1/8"	SBR	55-60	Black
RB-114	7/32"	5/8"	3/32"	SBR	70-75	Black
315-005	7/32"	7/16"	1/16"	Neoprene	60-65	Black
RB-351	15/64"	1-1/4"	1/4"	Neoprene	60-65	Black
315-040	1/4"	1/2"	1/8"	SBR	55-65	Black
RB-145	1/4"	5/8"	7/64"	Neoprene	60-70	Black
RB-318	9/32"	15/16"	1/16"	SBR	55-65	Black
315-G32-1A	5/16"	7/16"	1/16"	Neoprene	60-70	Black
315-003	5/16"	5/8"	1/8"	Neoprene	60-70	Black
315-100	7.93 mm	30 mm	6 mm	Neoprene	70-80	Black
315-G58-1Y	5/16"	1-1/2"	1/4"	SBR	65-70	Black
RB-86	3/8"	1/2"	1/16"	SBR	65-75	Black
RB-352	3/8"	5/8"	3/64"	Neoprene	60-70	Black
315-039	3/8"	5/8"	1/8"	SBR	50-60	Black
315-G02-1K	3/8"	1"	1/8"	Neoprene	65-75	Black
RB-64	3/8"	1"	19/32"	Neoprene	85-95	Black
315-035	25/64"	15/16"	9/16"	EPDM	65-75	Black
315-034	.498/.485"	.781/.812"	.125"	SBR	60-70	Black
RB-167	1/2"	1"	5/16"	SBR	65-75	Black
RB-135	1/2"	1-3/16"	1/2"	SBR	75-85	Black
315-170	5/8"	1-1/2"	1/4"	Neoprene	60-65	Black
315-076	5/8"	25/32"	3/16"	SBR	70	Black
RB-307	13/16"	1-3/32"	3/32"	Neoprene	60-65	Black
4228	7/8"	2"	3/8"	Closed Cell Neoprene Sponge	-	Black
315-H24-1X	1.625"	2.854"	.060"	Nitrile	75-80	Black

More Rubber (E.P.D.M.) and Silicone Washers on following page.

Inch

Rubber & Silicone Washer / Fibre Washer Assortment

Pouce

Assortiment de rondelles en caoutchouc et silicone / laveuse de fibres



RUBBER (E.P.D.M.) WASHER



Colour - Black Standard Thickness is 3/32" Durometer 70 ±5

SPAENAUR No.	Screw Size	Inside Diameter	Outside Diameter	PKG QTY.	SPAENAUR No.	Screw Size	Inside Diameter	Outside Diameter	PKG QTY.
315-I05-1X	#6 Standard	.120"	1/4"	100	315-G34-1Y	#14 Optional	.230"	5/8"	50
315-057	#6 Optional	.120"	3/8"	100	315-066	5/16" Standard	.290"	9/16"	50
315-058	#8 Standard	.150"	5/16"	100	315-067	5/16" Optional	.290"	11/16"	50
315-H43-1N	#8 Optional	.150"	7/16"	100	315-068	3/8" Standard	.355"	5/8"	50
315-078	#8 Optional	.152"	3/8"	100	315-069	3/8" Optional	.355"	13/16"	50
315-G61-1C	#10 Standard	.170"	3/8"	100	315-070	1/2" Optional	.490"	1-1/16"	25
315-061	#10 Optional	.170"	1/2"	100	315-071	5/8" Optional	.615"	1-5/16"	25
315-062	#12 Standard	.195"	7/16"	100	315-072	3/4" Optional	.740"	1-1/2"	25
315-063	#12 Optional	.195"	9/16"	100	315-073	1" Optional	.990"	2"	25
315-G66-1M	#14 Standard	.230"	1/2"	50					



SILICONE WASHER

"Hi/Low Temp"

Excellent Heat Resistance - Extreme Low Temperature
-62°C to 230°C (-80°F to 450°F)



Colour - Red

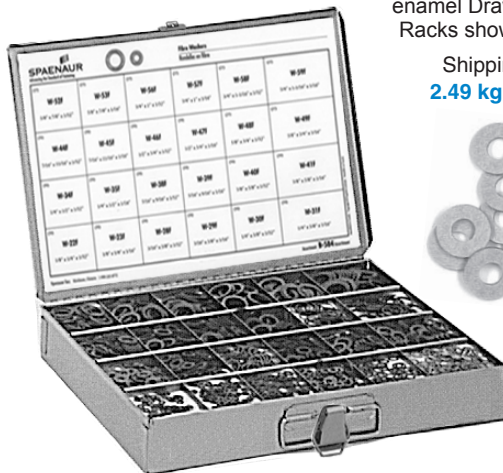
Durometer 60 ±5

Low Compression Set

SPAENAUR No.	Inside Diameter	Outside Diameter	Thickness	PKG QTY.	SPAENAUR No.	Inside Diameter	Outside Diameter	Thickness	PKG QTY.
315-G11-1C	.125"	.375"	.062"	100	315-404	.312"	.687"	.125"	50
315-401	.156"	.437"	.062"	100	315-405	.375"	.750"	.125"	50
315-402	.187"	.500"	.093"	100	315-406	.500"	1.00"	.125"	25
315-403	.250"	.625"	.093"	50					

ASSORTMENT B-584A

FIBRE WASHERS of Red, Vulcanized Fibre 24 SIZES — 1000 PIECES



REGULAR SIZE Steel, grey enamel Drawer will fit Slide Racks shown on page A2

Shipping Weight:
2.49 kg (5-1/2 lbs.)



Name	Spaenaur No.	Inner Diameter	Outer Diameter	Qty.	Page
Flat Washer 1/32" Thickness	638-C01-1C	1/8"	1/4"	50	D11
	W-28F	3/16"	3/8"		
	W-30F	1/4"			
	638-C03-1T		1/2"		
	W-38F	5/16"	9/16"		
	W-40F	3/8"	5/8"		
	W-44F	7/16"	11/16"		
	W-46F	1/2"	3/4"	25	
	W-48F	5/8"	7/8"		
	W-52F				
	W-56F	3/4"	1"		
	W-58F		1-1/16"		
W-23F	1/8"	1/4"	50		
W-29F	3/16"	3/8"			
638-C05-1W	1/4"			1/2"	
638-C09-1P					
W-39F	5/16"	9/16"			
W-41F	3/8"	5/8"			
W-45F	7/16"	11/16"			
W-47F	1/2"	3/4"		25	
W-49F	5/8"	7/8"			
W-53F					
W-57F	3/4"	1"			
W-59F		1-1/16"			

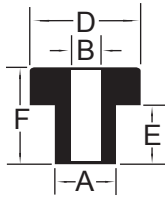
CATALOG 14.04
2019/08/08

SPAENAUR

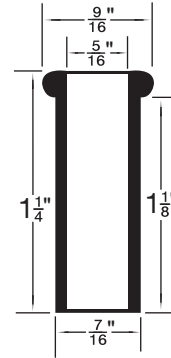
P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com

J55

Material: P.V.C. (Polyvinyl Chloride) Plastic *All Dimensions shown in Inches.*
Hardness: 55 Durometer
Colour: All items furnished in BLACK, unless otherwise shown.



SPAENAUR No.	A	B	D	E	F
315-596	1/4	3/16	1/2	3/8	7/16
315-604	5/16	3/16	9/16	5/16	1/2
315-621	5/8	15/64	13/16	9/32	13/32
315-622	21/32	7/16	1	5/16	7/16



SPAENAUR No. 315-615



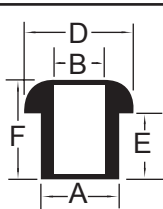
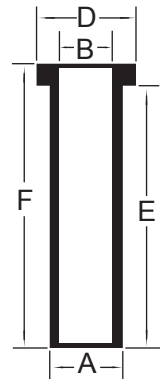
SPAENAUR No.	A	B	D	E	F	G
315-598	3/16	1/8	7/16	1-1/4	1-5/16	1/4
315-G16-1M	3/16	5/32	3/8	7/8	1.0	9/32
*315-600	3/16	5/32	3/8	7/8	1.0	9/32
■ 315-601	3/16	5/32	3/8	7/8	1.0	9/32
315-602	7/32	5/32	13/32	1-17/32	1-5/8	19/64
315-606	1/4	3/32	1/2	9/16	5/8	5/16
315-G64-1K	1/4	5/32	1/2	1-3/8	1-1/2	3/8
*315-610	1/4	5/32	1/2	1-7/16	1-9/16	3/8

*Grey
 ■ White



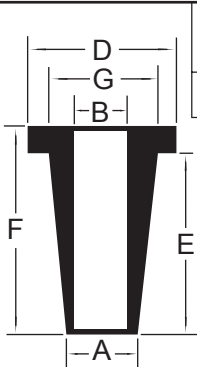
SPAENAUR No.	A	B	D	E	F
315-H37-1A	5/16	3/16	37/64	1-11/32	1-15/32
315-611	3/8	1/4	5/8	19/32	25/32
315-620	5/8	1/2	13/16	7/8	15/16

Plastic Sleeves
 PKG QTY. 100



SPAENAUR No.	A	B	D	E	F
315-608	3/8	3/16	9/16	11/32	1/2
315-618	1/2	13/32	11/16	1/4	5/16

SPAENAUR No.	A	B	D	E	F
315-612	3/8	9/32	1/2	1-3/8	1-15/32
315-616	7/16	5/16	9/16	1-15/32	1-9/16

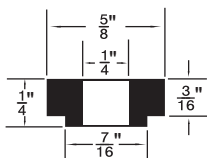
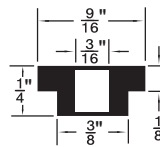


SPAENAUR No.	A	B	D	E	F	G
315-617	11/32	3/16	19/32	1-11/32	1-15/32	15/32

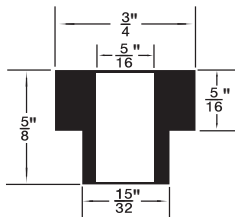
RUBBER BUSHINGS

PKG QTY. 25

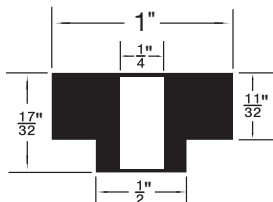
SPAENAUR No. 315-G43-1X



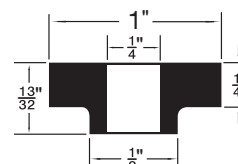
SPAENAUR No. RB-47



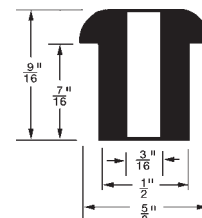
SPAENAUR No. RB-48



SPAENAUR No. RB-49



SPAENAUR No. RB-74



SPAENAUR No. 315-252

Hardness: 50 Durometer (approximately). Material: SBR, Black.

Inch

Sleeved Bushings - SBR / Snap Bushings Assortment

Pouce

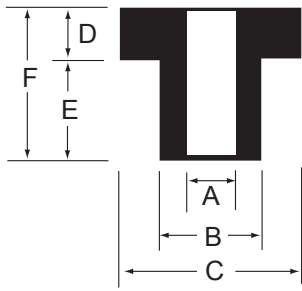
Manchons – SBR / Assortiment de manchons à enclenchement rapide

FLANGE PLAIN BORE

Material: SBR

Hardness: 60 Durometer ±5.

Colour: Black

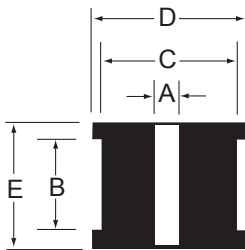


SPAENAUR No.	A Inside Dia.	B Stem Dia.	C Flange Dia.	D Flange Height	E Stem Height	F Total Height
315-G31-1X	1/8"	1/4"	3/8"	7/64"	17/64"	3/8"
315-281	11/64"	9/32"	1/2"	3/32"	7/64"	13/64"
315-303	1/4"	13/32"	5/8"	3/32"	5/16"	13/32"
*315-268	5/16"	1/2"	3/4"	1/8"	9/32"	13/32"
■315-254	5/16"	5/8"	1"	1/4"	11/32"	19/32"

*Rounded edge ■Buna N, 50 Durometer

PKG QTY. 25

PLAIN BORE SQUARE SHOULDERS



SPAENAUR No.	A Bore Dia.	B Groove Width	C Groove Dia.	D Outside Dia.	E Overall Thickness
315-260	5/16"	3/8"	3/8"	9/16"	1/2"
315-265	3/8"	1/8"	1/2"	5/8"	13/32"

PKG QTY. 25

ASSORTMENT 805-626

Nylon Hole & Vent Plugs BLACK NYLON SNAP BUSHINGS

32 SIZES - 693 PIECES

Large Size Grey Enamelled Drawer fits the Slide Racks shown on Page A3

Shipping weight 4.5 kg (10 lbs.)

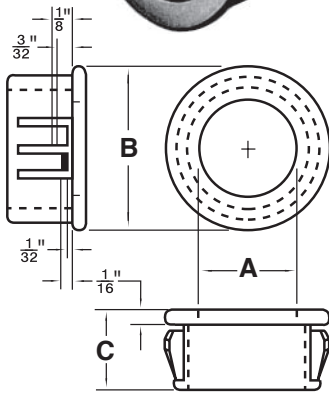


Mounting Hole Diameter	Spaenaur No.	Inner Diameter	Flange Diameter	Overall Height	Qty.	Page		
0.250"	315-700	1/8"	5/16"	5/16"	50	J58		
0.312"	315-701	3/16"	3/8"					
0.375"	315-703	1/4"	15/32"	13/32"	40	J58		
0.437"	315-706	5/16"	17/32"					
0.500"	315-708	3/8"	37/64"				30	J58
	315-709							
0.562"	315-711	7/16"	21/32"	25	J58			
	315-713							
0.625"	315-714	1/4"	23/32"	20	J58			
	315-715	7/16"						
	315-G06-1A	1/2"						
0.687"	315-720	9/16"	25/32"	15	J58			
0.750"	315-722	1/2"	27/32"					
	315-724	39/64"						
0.812"	315-726	9/16"	57/64"	10	J58			
	315-730	1/2"						
0.875"	315-731	9/16"	61/64"	5	J58			
	315-732	5/8"						
1.000"	315-734	3/4"	1-1/8"	3	J58			
	315-735	13/16"						
1.093"	315-736	7/8"	1-7/32"	10	J58			
	315-737	15/16"						
1.187"	315-739	1"	1-5/16"	5	J58			
1.250"	315-740		1-23/64"					
1.375"	315-742	1-1/16"	1-15/32"	5	J58			
	315-744		1-1/8"					
1.500"	315-745	1-5/16"	1-39/64"	5	J58			
	315-746		1-7/8"					
1.750"	315-748	1-3/8"	2-1/8"	3	J58			
2.000"	315-749	1-5/8"	2-1/8"					
2.500"	315-783	1-31/32"	2-21/32"	3	J58			

CATALOG 14.06 SPAENAUR

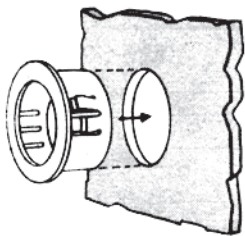
P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com

J57



Maximum temperature on the part shall not exceed **105° C.**

Melting point **265° C.**



SNAP BUSHINGS

Nylon Snap Bushings are used to convert sharp-edged metal holes to smooth, neat, insulated holes. They snap-assemble with fingertip pressure, and withstand 35 lb. pushback test. Available in 50 sizes for 1/4" to 2-1/2" diameter holes with various inside diameters.

Designed to meet specifications for insulation and mechanical protection of electric cords and cables, as well as protection of tubing, hose, rope and chain.

Snap Bushings are used in hundreds of products ranging from small appliances to air conditioners and furnaces. On production lines, they assemble and lock to product at the touch of a finger.

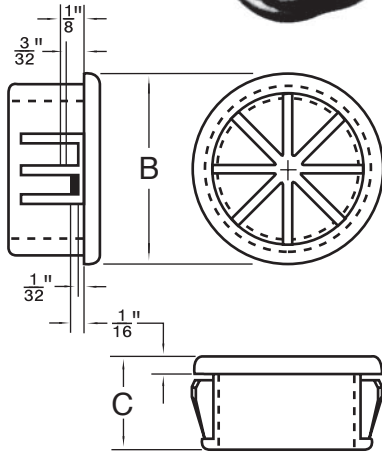
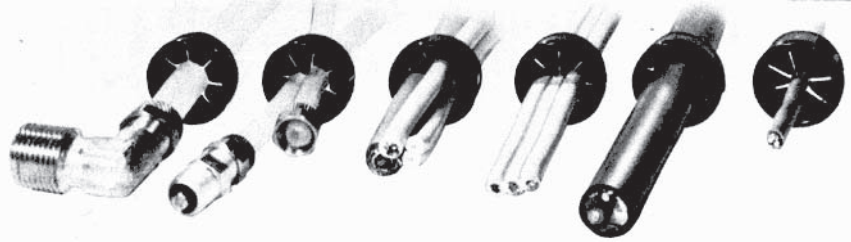
Of Black and White Nylon for sharp-edged holes in metal.

Mounting Hole Diameter	SPAENAU No.		DIMENSIONS				
	Black Nylon	White Nylon	Inside Diameter A	Head Diameter B	O/A Height C	Maximum Panel Thickness	PKG QTY.
.250"	315-700		1/8"	5/16"	5/16"	.062"	100
.312"	315-701		3/16"	3/8"	5/16"	.062"	100
.375"	315-702		3/16"	15/32"	13/32"	.125"	100
	315-703	315-104-1M	1/4"	15/32"	13/32"	.125"	100
.437"	315-704		.243" ^{+0.015} _{-.000}	17/32"	13/32"	.125"	100
	315-705		1/4"	17/32"	13/32"	.125"	100
	315-706		5/16"	17/32"	13/32"	.125"	100
.500"	315-707		1/4"	37/64"	13/32"	.125"	100
	315-708	315-776	5/16"	37/64"	13/32"	.125"	100
	315-709	315-772	3/8"	37/64"	13/32"	.125"	100
		315-778	.375"	9/16"	1/4"	.062"	100
.562"	315-710		5/16"	21/32"	13/32"	.125"	100
	315-711		3/8"	21/32"	13/32"	.125"	100
	315-713	315-773	7/16"	21/32"	13/32"	.125"	100
.625"	315-714		1/4"	23/32"	13/32"	.125"	100
	315-715		7/16"	23/32"	13/32"	.125"	100
	315-G06-1A		1/2"	23/32"	13/32"	.125"	100
	315-717		.500" ^{+0.015} _{-.000}	45/64"	17/32"	.250"	100
.687"	315-719		1/2"	25/32"	13/32"	.125"	100
	315-720		9/16"	25/32"	13/32"	.125"	100
.750"	315-721		3/8"	27/32"	13/32"	.125"	100
	315-722		1/2"	27/32"	13/32"	.125"	100
	315-723		9/16"	27/32"	13/32"	.125"	100
	315-724		39/64"	27/32"	13/32"	.125"	100
	315-725	315-774	.625" ^{+0.015} _{-.000}	53/64"	17/32"	.250"	100
.781"	*315-780		.625"	55/64"	1/4"	.062"	100
.812"	315-726		9/16"	57/64"	13/32"	.125"	100
	315-727		39/64"	57/64"	13/32"	.125"	100
.875"	315-728		3/8"	61/64"	29/64"	.125"	100
	315-729		7/16"	61/64"	29/64"	.125"	100
	315-730		1/2"	61/64"	29/64"	.125"	100
	315-731		9/16"	61/64"	29/64"	.125"	100
	315-732		5/8"	61/64"	29/64"	.125"	100
	315-733		11/16"	61/64"	29/64"	.125"	100
1.000"	315-734	315-775	3/4"	1-1/8"	29/64"	.125"	100
1.093" to 1.125"	315-735		13/16"	1-7/32"	29/64"	.125"	100
	315-736	315-771	7/8"	1-7/32"	29/64"	.125"	100
	315-737		15/16"	1-7/32"	29/64"	.125"	100
1.187"	315-739		15/16"	1-5/16"	29/64"	.125"	100
1.250"	315-740		15/16"	1-23/64"	29/64"	.125"	100
1.375"	315-742		1"	1-15/32"	29/64"	.125"	100
1.500"	315-744		1-1/16"	1-39/64"	29/64"	.125"	50
	315-745		1-1/8"	1-39/64"	29/64"	.125"	50
	315-746		1-5/16"	1-39/64"	29/64"	.125"	50
1.750"	315-748		1-3/8"	1-7/8"	29/64"	.125"	50
2.000"	315-749	315-783	1-5/8"	2-1/8"	29/64"	.125"	50
2.500"	315-750		1-31/32"	2-21/32"	23/32"	.250"	50
3.5"	315-785		2.940"	3.660"	.720"	.250"	10

* Shorty Bushing Style.

UNIVERSAL BUSHINGS

of Black Nylon



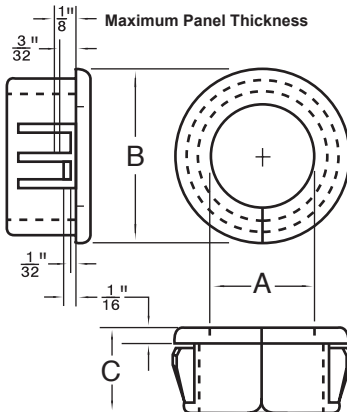
SPAENAUR No.	DIMENSIONS			
	Mounting Hole Diameter A	Head Diameter B	Overall Height C	Maximum I.D.
315-751	.625"	23/32"	13/32"	7/16"
315-G69-1P	.750"	55/64"	25/64"	1/2"
315-753	.812"	57/64"		
315-754	.875"	15/16"	29/64"	9/16"
315-755	1.000"	1-1/16"		3/4"
315-756	1.093/1.125"	1-5/32"		13/16"

PKG QTY. 100

Nylon bushing used to absorb vibration, cushion and position a single or group of cables, tubes, hoses or shafts. The flexible insulated hole supports and protects even at angle entry. Snap-lock into panels up to 1/8" in thickness, not affected by oils, suitable for wide temperature variations. Because of its unique design, one bushing will solve a multitude of insulating problems. Flexible Nylon shutters adjust to accommodate any shape from 1/8" to maximum diameter of 13/16".

OPEN/CLOSED BUSHINGS

of Black Nylon

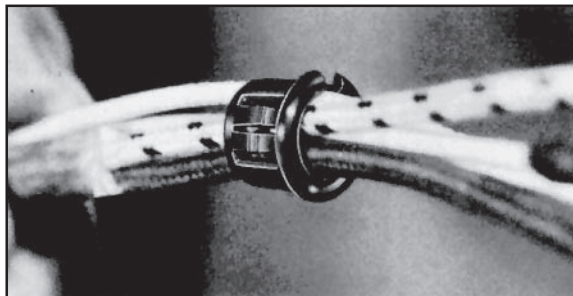


SPAENAUR No.	DIMENSIONS			
	Mounting Hole Diameter	Inside Diameter A	Head Diameter B	Overall Height C
315-757	.375"	17/64"	27/64"	13/32"
315-H45-1K	.437"	5/16"	31/64"	
315-758	.500"	5/16"	9/16"	
315-759	.625"	29/64"	11/16"	
315-760	.750"	33/64"	13/16"	
315-G51-1T	.875"	43/64"	59/64"	

PKG QTY. 100

Open/Closed Bushings are used to convert sharp edged metal holes to smooth neat insulated holes. They assemble and snap-lock with fingertip pressure. The Open/Closed Bushing features a split body which can be placed around wires or tubes and closes, when inserted into the proper size hole, to form a perfect circle and a complete insulation barrier. The split feature will permit protection of preassembled harnesses or capillary tubes which might not thread thru a regular nylon Snap Bushing. Typical applications are insulation and mechanical protection for electric wires and cable, metal or plastic tubing, hose and rope.

Typical Applications

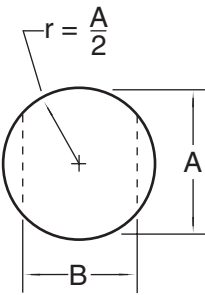
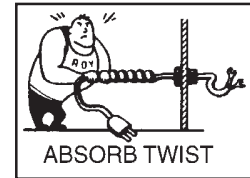
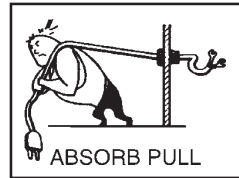
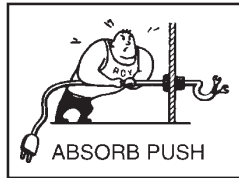
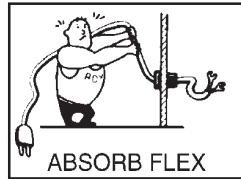
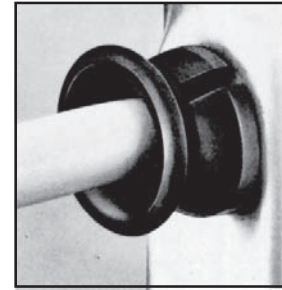


Bell-Mouth Strain Relief Bushings

Nylon

These nylon Bushings not only have Strain Relief protection but also provide an important innovation — a widely flared exit hole for the cable so as to help you meet the new and more demanding cable flexing requirements.

These parts have the basic Strain Relief Bushings design — fit the same cable sizes and use the same mounting holes. Then, the flared extension prevents your cable from bending sharply, eases the cable into a lazy bend assuring longer life for the cable and your product.



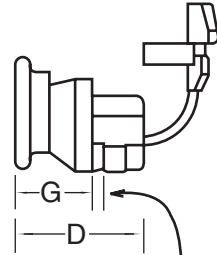
PKG QTY. 50

FOR FLAT CABLES

SPAENAUR No. and Color	UL/CSA DESCRIPTION	WILL FIT THESE WIRES			CHASSIS DIMENSIONS			D BODY LENGTH	G HEAD LENGTH
		TYPE	Gauge/ Conductors	SIZE	A Mounting Hole Dia.	B To Prevent Rotation	MAXIMUM THICKNESS		
315-762 (Black)	SR-2P-5	CLOCK	20/2	.09" x .18"	.375"	.330"	.062"	5/8"	3/8"
315-763 (White)		SPT-1	18/2	.11" x .21"					
315-764 (Black)	SR-3P-5	SPT-1	18/2	.12" x .22"	.437"	.390"	.062"	45/64"	13/32"
315-765 (White)		SPT-1	18/3	.12" x .30"	.500"	.465"			
315-766 (Black)	SR-4N-5	SPT-1	18/3	.12" x .30"	.500/.515"	.465"	.062"	45/64"	13/32"
315-767 (White)		SPT-2 & HPN	18/2	.15" x .28"					

FOR ROUND CABLES

315-768 (Black)	SR-5N-5	SV & SVT	18/2	.250"	.500"	.450"	.062"	11/16"	13/32"
			18/3	.255"	.500/.515"				
315-769 (White)	SR-5N-5	HPD	18/2	.270"	.500"	.450"	.062"	11/16"	13/32"
			16/2	.290"	.500/.515"				
315-779 (Black)	SR-6N3-5	SJ, SJO & SJT	16/2	.325"	.625"	.550"	.062"	13/16"	13/32"
			18/3	.330"					
			14/2	.350"					
			16/3	.355"					
			18/4	.360"					



Maximum Chassis Thickness—Part actually has additional clearance

876-196 HAND PLIERS

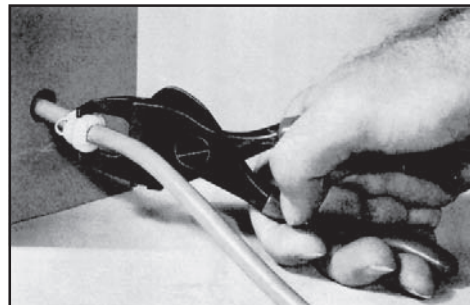
Adjustable for all Strain Relief Bushings that assemble into holes up to 7/8" diameter.

PKG QTY. 1

876-399

Replacement Spring only for Hand Plier 876-196.

PKG QTY. 1



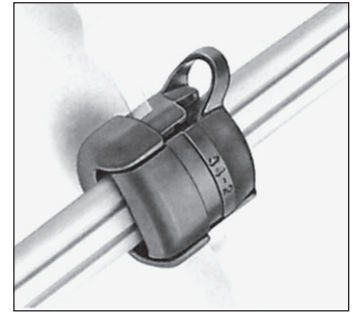
876-197 HAND PLIERS

For use with Strain Relief Bushings that assemble into 3/4" and larger diameter holes. Pliers are adjustable.

PKG QTY. 1

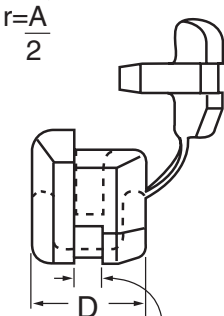
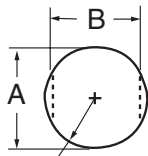
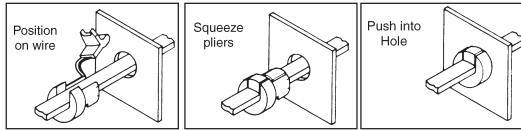
Straight-Thru Strain Relief Bushings

Nylon



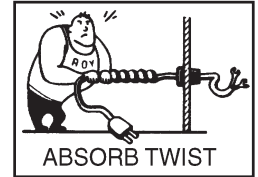
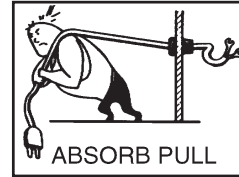
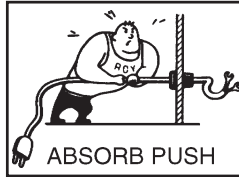
Protect the life of your electric/electronic products by absorbing forces of pull, push and twist.

Securely anchor, insulate and protect cables at chassis entry points.



Maximum Chassis Thickness—Part actually has additional clearance

PKG QTY. 50



FOR FLAT CABLES

SPAENAUR No. and Color	UL/CSA DESCRIPTION	WILL FIT THESE WIRES			CHASSIS DIMENSIONS			D BODY LENGTH
		TYPE	Gauge/Conductors	SIZE	A Mounting Hole Dia.	B To Prevent Rotation	MAXIMUM THICKNESS	
315-741 (Black)	SR-3P-4	SPT-1	18/2	.12" x .22"	.437"	.390"	.062"	13/32"
315-781 (Black)	SR-4N-4	SPT-2 & HPN	18/2	.15" x .28"	.500"	.465"		

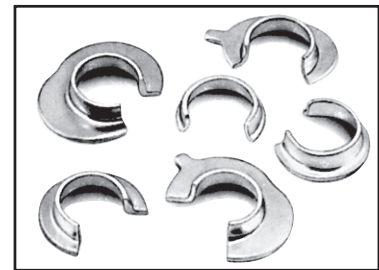
FOR ROUND CABLES

SPAENAUR No. and Color	UL/CSA DESCRIPTION	Cable Type	WILL FIT THESE WIRES		Mounting Hole Dia.	To Prevent Rotation	MAXIMUM THICKNESS	D BODY LENGTH
			Gauge/Conductors	SIZE				
315-770 (Black)	SR-5N-4	SV & SVT	18/2	.250"	.500"	.450"	.062"	7/16"
			18/3	.255"				
		HPD	18/2	.270"	.500"			
16/2	.290"		.500/.515"					
315-782 (Black)	SR-6P-4	SJ, SJO & SJT	18/2	.300"	.625"	.550"	.125"	37/64"
315-784 (Black)	SR-6L-1	SJ, SJO & SJT	18/2	.300"	.625"	.550"	.156"	11/16"
			16/2	.325"				
			18/3	.330"	.687"			
			16/3	.355"				

Metal Strain Relief Bushings

Other Styles Available

PKG QTY. 100



Absorb pull force only, to help meet UL and CSA requirements.

Designed to be attached to wire and cable inside of the chassis.

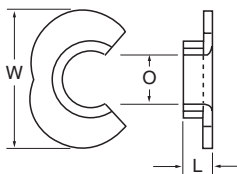
Permanent grip, non-slip design.

Easy assembly with recommended hand plier.

Made of zinc plated steel.

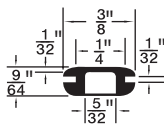
FOR ROUND CABLES

SPAENAUR No.	Description	Type	WILL FIT THESE CABLES Approximate Diameter	PART DIMENSIONS		
				O	W	L
656-500	MSR-2A	SJ	.300/.343"	13/64"	25/32"	11/64"

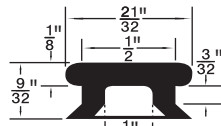


Material: P.V.C. (Polyvinyl Chloride) Plastic (except No's. RB-283 and RB-305)
Hardness: 55 Durometer (all P.V.C. items)
Colour: All items furnished in BLACK, unless otherwise shown.

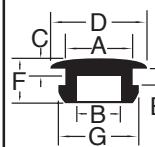
All Grommets this page PKG QTY. 100



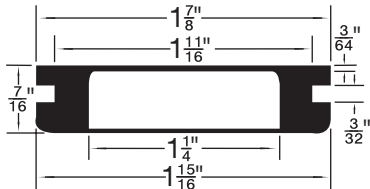
315-500



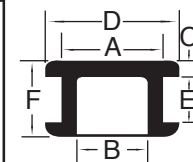
315-503



SPAENAUR No.	A	B	C	D	E	F	G
315-I06-1A	25/64	1/4	3/32	17/32	3/32	1/4	7/16
315-502	7/16	3/8	3/64	19/32	3/64	1/8	1/2
315-514	25/32	5/8	1/16	29/32	1/32	13/64	27/32

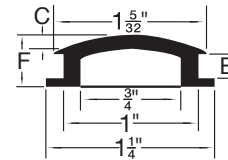
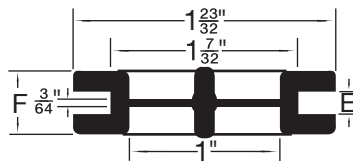


315-507

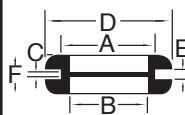


SPAENAUR No.	A	B	C	D	E	F
315-506	1-1/16	1/2	3/32	1-9/32	7/64	7/16
315-513	3/4	1/2	3/16	31/32	5/32	13/32
315-527	21/32	15/32	3/32	7/8	9/32	1/2

SPAENAUR No.	E	F
315-524	5/32	13/32



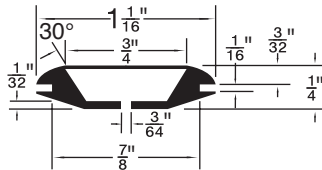
SPAENAUR No.	C	E	F
315-518	5/64	1/16	3/16
315-519	13/64	3/16	5/16



SPAENAUR No.	A	B	C	D	E	F
315-504	5/8	1/2	1/16	7/8	5/64	5/16
315-505	5/8	1/2	7/64	7/8	1/8	23/64
315-511	3/4	5/8	1/32	1.0	5/64	5/16
315-512	3/4	5/8	5/64	1.0	1/8	23/64
315-G23-1K	1	3/4	5/64	1-27/64	3/32	3/8

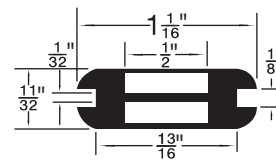
SPAENAUR No.	A	B	C	D	E	F
315-521	1-1/8	15/16	3/64	1-3/8	3/64	1/4
315-525	1-3/8	1-1/8	1/8	1-3/4	3/32	5/16
315-526	1-1/2	1-1/8	1/8	1-3/4	3/32	5/16

SPAENAUR No. RB-283
 Black
 Neoprene



Durometer 60

SPAENAUR No. RB-305



Black
 Buna S (SBR)
 Durometer
 50 to 55

ASSORTMENT B-580

32 SIZES - 687 PIECES

RUBBER GROMMETS & BUSHINGS

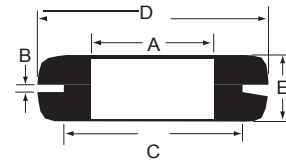
Furnished in Large Size, Grey Enamelled STEEL Drawer, with scooped bins. Drawer will fit into the Slide Racks shown on page A3
 Shipping Wt. 6.01 kg. (13-1/4 lbs.)



For the complete assortment contents turn to A115

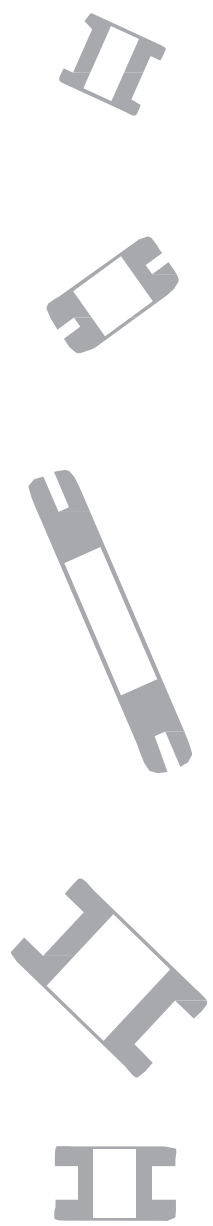
Material: SBR unless otherwise indicated.
Hardness: 60 Durometer +/- 5
Colour: Black, unless otherwise stated.

NOTE: The SPAENAU Grommets listed on page J64 have excellent dielectric strength, good dynamic properties, set and abrasion resistance. It rates excellent as electrical insulation, has excellent heat and cold resistance, and very good heat aging. It is NOT recommended for applications where the grommet will be in contact with oil, gasoline or lacquer solvents. Many of these grommets are similar in size and shape only, to AN931 Grommets.



Listed by 1) Hole Dia. 2) Groove Width.

SPAENAU No.	A Inside Dia.	B Groove Width	C Groove Dia.	D O.D.	E O/A Thick.	Material/Compound
B-1030	1/8"	1/16"	1/4"	11/32"	3/16"	SBR
RB-209	1/8"	1/16"	9/16"	3/4"	3/16"	SBR
RB-210	1/8"	1/8"	9/16"	3/4"	1/4"	SBR
B-1325	9/64"	3/32"	5/16"	15/32"	9/32"	SBR
315-H80-1C	5/32"	1/16"	1/4"	3/8"	3/16"	SBR
315-H81-1N	5/32"	3/32"	1/4"	7/16"	3/8"	SBR
315-172	3/16"	1/32"	5/16"	7/16"	3/16"	SBR
315-I10-1Y	3/16"	1/16"	5/16"	7/16"	7/32"	SBR
315-H46-1W	3/16"	1/16"	5/16"	7/16"	3/16"	SBR
315-H41-2Y	3/16"	3/64"	5/16"	1/2"	7/32"	SBR
315-H62-1X	3/16"	3/32"	9/32"	7/16"	7/32"	SBR
315-177	3/16"	3/32"	5/16"	1/2"	9/32"	SBR
RB-55	3/16"	1/8"	13/32"	9/16"	3/8"	SBR
315-H53-1Y	3/16"	1/8"	5/16"	7/16"	1/4"	SBR
RB-213	3/16"	3/16"	5/16"	7/16"	5/16"	SBR
RB-214	3/16"	1/4"	5/16"	7/16"	3/8"	SBR
RB-130	3/16"	1/4"	5/16"	7/16"	3/8"	BUNA N
315-H94-1T	7/32"	1/16"	5/16"	7/16"	3/16"	SBR
RB-53	15/64"	3/16"	3/8"	5/8"	3/8"	SBR
315-G18-2A	1/4"	1/16"	3/8"	1/2"	7/32"	SBR
315-G56-2A	1/4"	1/16"	7/16"	5/8"	3/16"	SBR
315-G49-1T	1/4"	1/16"	7/16"	5/8"	3/16"	BUNA N
315-H83-1K	1/4"	3/32"	3/8"	1/2"	1/4"	SBR
315-830	1/4"	1/8"	3/8"	1/2"	1/4"	SBR SBR
RB-346	1/4"	1/8"	3/8"	5/8"	3/8"	NEOPRENE
315-H87-1A	1/4"	1/8"	3/8"	5/8"	3/8"	BUNA N
*315-317	1/4"	1/8"	7/16"	5/8"	1/4"	BUNA N
315-H82-1T	1/4"	1/8"	7/16"	5/8"	1/4"	SBR
315-316	1/4"	3/16"	7/16"	5/8"	5/16"	BUNA N
315-H71-1K	1/4"	3/16"	7/16"	5/8"	5/16"	SBR
315-H74-1X	1/4"	1/4"	7/16"	5/8"	3/8"	SBR
315-174	9/32"	1/16"	7/16"	5/8"	1/4"	SBR
4177	9/32"	1/16"	3/8"	9/16"	1/4"	SBR
RB-190	9/32"	3/32"	1/2"	21/32"	27/64"	SBR
RB-54	9/32"	1/4"	15/32"	11/16"	7/16"	SBR
4071	5/16"	1/16"	1/2"	21/32"	1/4"	SBR
315-G07-2P	5/16"	1/16"	7/16"	5/8"	9/32"	SBR
315-H78-1C	5/16"	1/16"	9/16"	13/16"	5/16"	SBR



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SPAENAU CATALOG 14.11

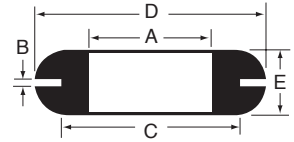
* Duro 50 +/- 5

Contact Sales Desk For Package Quantities

Continues on Next Page

Material: SBR unless otherwise indicated.
Hardness: 60 Durometer +/- 5
Colour: Black, unless otherwise stated.

NOTE: The SPAENAUR Grommets listed on page J64 have excellent dielectric strength, good dynamic properties, set and abrasion resistance. It rates excellent as electrical insulation, has excellent heat and cold resistance, and very good heat aging. It is NOT recommended for applications where the grommet will be in contact with oil, gasoline or lacquer solvents.



Continued from Previous Page

Listed by 1) Hole Dia. 2) Groove Width.

SPAENAUR No.	A Inside Dia.	B Groove Width	C Groove Dia.	D O.D.	E O/A Thick.	Material/Compound
315-G15-1W	5/16"	1/16"	3/4"	1"	5/16"	BUNA N
RB-223	5/16"	1/16"	3/4"	1"	5/16"	SBR
315-H95-1K	5/16"	3/32"	7/16"	5/8"	5/16"	SBR
315-314	5/16"	3/32"	7/16"	5/8"	5/16"	BUNA N
315-309	5/16"	3/32"	15/32"	3/4"	11/32"	SBR
315-H61-1M	5/16"	1/8"	9/16"	13/16"	3/8"	SBR
315-H73-1M	5/16"	1/8"	3/4"	1"	3/8"	SBR
315-G57-1P	5/16"	3/16"	9/16"	13/16"	7/16"	SBR
RB-225	5/16"	3/16"	3/4"	1"	7/16"	SBR
315-173	5/16"	1/4"	1/2"	11/16"	7/16"	SBR
315-H88-1P	5/16"	1/4"	9/16"	13/16"	1/2"	SBR
RB-226	5/16"	1/4"	3/4"	1"	1/2"	SBR
315-259	3/8"	1/16"	1/2"	5/8"	1/4"	SBR
RB-39	3/8"	1/16"	1/2"	11/16"	9/32"	SBR
315-G71-1P	3/8"	1/16"	5/8"	7/8"	5/16"	SBR
315-H19-1K	3/8"	1/16"	5/8"	7/8"	11/32"	SBR
315-G24-2W	3/8"	1/8"	5/8"	7/8"	3/8"	SBR
315-284	3/8"	3/16"	9/16"	13/16"	3/8"	SBR
RB-229	3/8"	3/16"	5/8"	7/8"	7/16"	SBR
315-H98-1X	3/8"	1/4"	1/2"	11/16"	7/16"	SBR
315-G65-2W	3/8"	1/4"	1/2"	3/4"	1/2"	SBR
315-H59-1M	3/8"	1/4"	5/8"	7/8"	1/2"	SBR
RB-297	7/16"	1/16"	9/16"	3/4"	1/4"	SBR
RB-324	7/16"	3/32"	5/8"	7/8"	5/16"	SBR
315-G60-1Y	7/16"	1/16"	11/16"	15/16"	5/16"	SBR
315-H77-1Y	7/16"	1/8"	11/16"	15/16"	3/8"	SBR
RB-233	7/16"	3/16"	11/16"	15/16"	7/16"	SBR
RB-234	7/16"	1/4"	11/16"	15/16"	7/16"	SBR
315-163	7/16"	1/4"	11/16"	1"	1/2"	SBR
315-G22-2W	1/2"	1/16"	3/4"	1-1/16"	5/16"	SBR
315-H67-1N	1/2"	1/16"	13/16"	1-1/16"	5/16"	SBR
B-992	1/2"	1/16"	1"	1-1/4"	1/4"	SBR
315-H91-1Y	1/2"	3/32"	3/4"	7/8"	11/32"	SBR
315-305	1/2"	3/32"	3/4"	31/32"	9/32"	SBR
315-H20-1T	1/2"	1/8"	3/4"	1"	1/2"	SBR
RB-236	1/2"	1/8"	13/16"	1-1/16"	3/8"	SBR
RB-237	1/2"	3/16"	13/16"	1-1/16"	7/16"	SBR
315-H69-1K	1/2"	1/4"	13/16"	1-1/16"	1/2"	SBR
315-H48-1X	1/2"	3/8"	3/4"	1"	5/8"	SBR

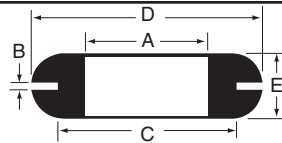


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CATALOG 14.09 SPAENAUR

Contact Sales Desk For Package Quantities

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Contact Sales Desk For Package Quantities

SPAENAUR No.	A Inside Dia.	B Groove Width	C Groove Dia.	D O.D.	E O/A Thick.	Material/Compound
315-G67-1X	9/16"	1/16"	13/16"	1-1/16"	5/16"	SBR
RB-240	9/16"	1/8"	13/16"	1-1/16"	3/8"	SBR
RB-241	9/16"	3/16"	13/16"	1-1/16"	7/16"	SBR
315-312	9/16"	3/16"	7/8"	1-1/16"	7/16"	SBR
315-H18-2T	9/16"	1/4"	13/16"	1-1/16"	1/2"	SBR
315-H21-2K	5/8"	1/16"	7/8"	1-1/8"	5/16"	SBR
315-H65-1Y	5/8"	1/8"	7/8"	1-1/8"	3/8"	SBR
RB-245	5/8"	3/16"	7/8"	1-1/8"	7/16"	SBR
315-H47-1M	5/8"	1/4"	7/8"	1-1/8"	1/2"	SBR
315-H54-1C	11/16"	1/16"	1"	1-5/16"	3/8"	SBR
315-H72-1W	11/16"	1/8"	1"	1-5/16"	7/16"	SBR
RB-34	11/16"	3/16"	1"	1-5/16"	1/2"	SBR
315-G08-2Y	11/16"	1/4"	1"	1-5/16"	9/16"	SBR
315-G04-2M	3/4"	1/16"	1-1/16"	1-3/8"	3/8"	SBR
RB-23	3/4"	1/16"	1-1/4"	1-5/8"	1/4"	SBR
315-H70-1T	3/4"	1/8"	1-1/16"	1-3/8"	7/16"	SBR
RB-22	3/4"	1/8"	1-1/4"	1-5/8"	5/16"	SBR
RB-249	3/4"	3/16"	1-1/16"	1-3/8"	1/2"	SBR
315-A02-2G	3/4"	1/4"	1-1/16"	1-3/8"	9/16"	SBR
RB-251	7/8"	1/16"	1-1/4"	1-5/8"	7/16"	SBR
RB-252	7/8"	1/8"	1-1/4"	1-5/8"	1/2"	SBR
RB-147	7/8"	5/32"	1-1/4"	1-5/8"	17/32"	SBR
315-H39-2Y	7/8"	3/16"	1-1/4"	1-5/8"	9/16"	SBR
RB-254	7/8"	1/4"	1-1/4"	1-5/8"	5/8"	SBR
RB-255	1"	1/16"	1-3/8"	1-3/4"	7/16"	SBR
RB-105	1"	3/32"	1-3/8"	1-3/4"	3/8"	SBR
RB-256	1"	1/8"	1-3/8"	1-3/4"	1/2"	SBR
RB-257	1"	3/16"	1-3/8"	1-3/4"	9/16"	SBR
315-H40-2P	1"	1/4"	1-3/8"	1-3/4"	5/8"	SBR
315-H57-1K	1-1/8"	3/64"	1-3/8"	2"	3/8"	SBR
RB-259	1-1/4"	1/16"	2-3/8"	2-3/4"	7/16"	SBR
315-G17-1X	1-1/4"	3/32"	1-1/2"	1-7/8"	3/8"	SBR
RB-260	1-1/4"	1/8"	2-3/8"	2-3/4"	1/2"	SBR
315-H26-1P	1-1/4"	1/4"	2-3/8"	2-3/4"	5/8"	SBR
315-H84-1W	1-5/16"	1/8"	1-5/8"	2"	7/16"	SBR
315-H60-1W	1-1/2"	1/16"	1-3/4"	2-1/8"	7/16"	SBR
RB-107	1-1/2"	3/32"	2"	2/3/8"	3/8"	SBR
315-H63-1A	1-1/2"	1/8"	1-3/4"	2-1/8"	1/2"	SBR
315-H51-1A	1-1/2"	3/16"	1-3/4"	2-1/8"	9/16"	SBR
315-H52-1P	1-1/2"	1/4"	1-3/4"	2-1/8"	5/8"	SBR
RB-267	1-3/4"	1/16"	3-1/4"	3-3/4"	1/2"	SBR
RB-268	2"	1/16"	3-1/2"	4"	1/2"	SBR
315-A01-2E	2-1/8"	1/8"	2-1/2"	2-7/8"	1/2"	SBR
315-H56-1T	2-3/8"	1/4"	2-3/4"	3"	3/4"	SBR



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SPAENAUR CATALOG 14

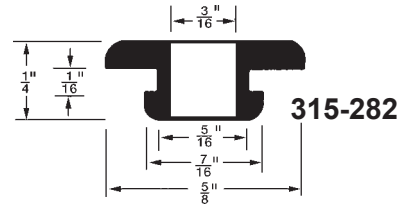
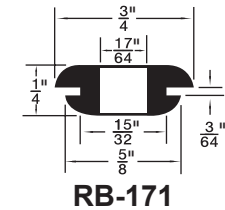
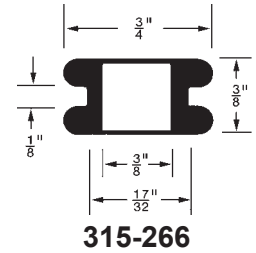
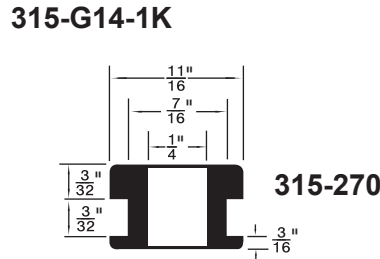
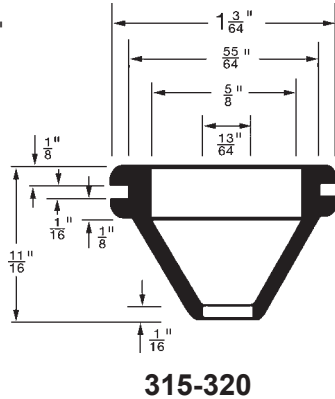
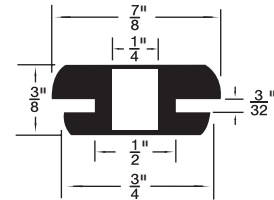
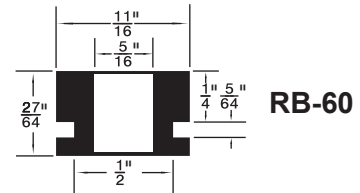
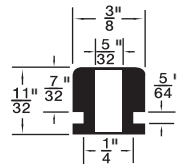
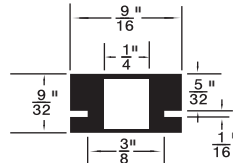
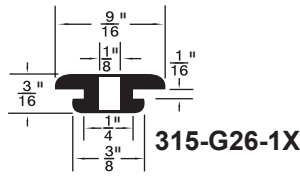


Inch

Pouce

Material: SBR unless otherwise indicated.
Hardness: 60 Durometer ± 5 unless otherwise noted.
Colour: Black, unless otherwise stated.

PKG QTY. 25

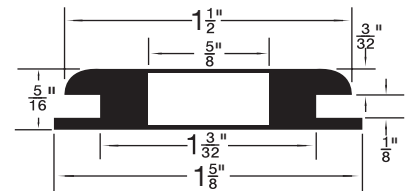


RUBBER LABORATORY STOPPERS

Black Natural Rubber (NR) Duro: 50

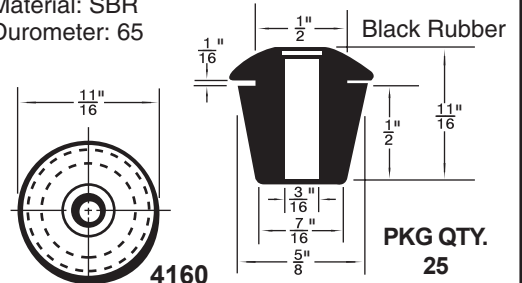
SPAENAUR No. (no hole)	SIZE	A Top	B Bottom	C Length	SPAENAUR No. (with hole)	Hole Dia.	PKG QTY.
RB-304	00	9/16"	3/8"	1"			100
RB-325	0	5/8"	1/2"	1"			100
RB-327	1	3/4"	9/16"	1"			100
315-081	-	13/16"	5/8"	1"			50
RB-329	3	15/16"	3/4"	1"			50
RB-330	4	1"	13/16"	1"			50
*315-967	5	1-1/16"	29/32"	1"			50
RB-332	6	1-1/4"	1"	1"	315-045	1/4"	50
RB-333	7	1-3/8"	1-1/8"	1"			25
315-G48-1N	8	1-9/16"	1-5/16"	1"			25
315-075	9	1-3/4"	1-1/2"	1"	315-074	1/4"	10
RB-336	10	1-15/16"	1-5/8"	1"			10
RB-338	12	2-1/2"	2-1/8"	1"			10
RB-339	13	2-3/4"	2-5/16"	1"			10

*Black SBR, 35-45 Duro



RB-99 Material - Isoprene Duro 65-70

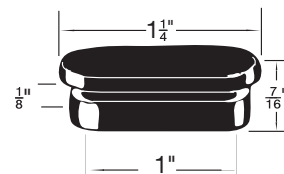
Material: SBR
Durometer: 65



4160

PKG QTY. 25

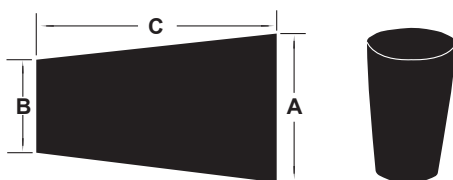
SPAENAUR No. 4229



RUBBER PLUG for brake adjusting screw hole.

PKG QTY. 25

CATALOG 14 SPAENAUR



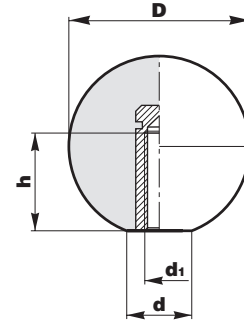
BALL KNOB

with Brass Insert

Contact Sales Desk For Package Quantities

SPAENAUR

No.	D	d	h	d1
135-168	0.98	0.55	0.63	10-32
135-169	0.98	0.55	0.63	1/4-20
135-001	1.18	0.55	0.79	1/4-20
135-002	1.18	0.55	0.79	5/16-18
135-170	1.38	0.63	0.91	1/4-20
135-171	1.38	0.63	0.91	5/16-18
135-003	1.58	0.63	1.10	5/16-18
135-172	1.58	0.63	1.10	3/8-16
135-004	1.97	0.71	1.42	3/8-16
135-W37-1P	1.97	0.71	1.42	1/2-13



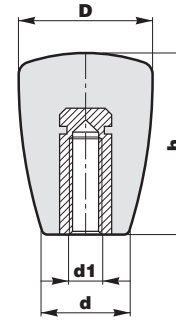
Thermoplastic Material

TAPERED KNOB

with Brass Insert

SPAENAUR

No.	D	d	h	d1
135-W68-1K	0.99	0.63	1.34	1/4-20
135-007	1.26	0.79	1.69	5/16-18
135-W88-1Y	1.26	0.79	1.69	3/8-16
135-174	1.26	0.79	1.69	1/2-13
135-008	1.69	1.06	2.29	3/8-16



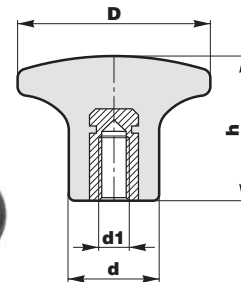
Thermoplastic Material

MUSHROOM KNOB

with Brass Insert

SPAENAUR

No.	D	d	h	d1
135-W89-1C	0.87	0.41	0.65	10-32
135-W14-1Y	0.87	0.41	0.65	1/4-20
135-W38-1Y	1.26	0.59	0.95	5/16-18



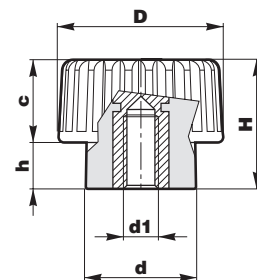
Thermoplastic Material

THUMB KNOB

with Brass Insert

SPAENAUR

No.	D	d	H	c	h	d1
135-W59-1X	0.59	0.39	0.45	0.30	0.16	1/4-20



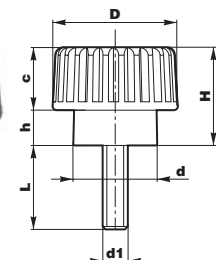
Thermoplastic Material

THUMB KNOB

Male

SPAENAUR

No.	D	d	H	c	h	L	d1
135-W24-1A	0.59	0.39	0.45	0.30	0.16	0.50	1/4-20
135-W15-1C	0.59	0.39	0.45	0.30	0.16	1.00	1/4-20



Thermoplastic Material

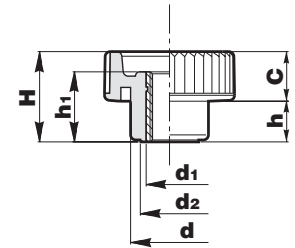
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CATALOG 14

SPAENAUR

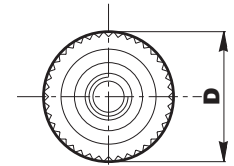
THUMB KNOB

Tapped Right Through



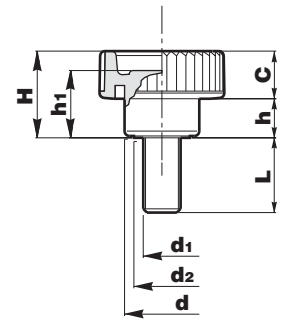
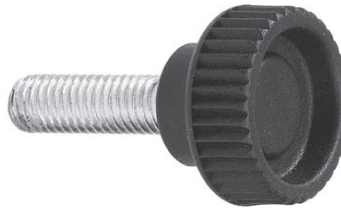
SPAENAUR No.	D	H	d	d1	d2	C	h	h1
135-W69-1W	0.83	0.59	0.51	1/4-20	0.37	0.33	0.26	0.49
135-014	1.02	0.71	0.63	5/16-18	0.47	0.37	0.33	0.59

Thermoplastic Material



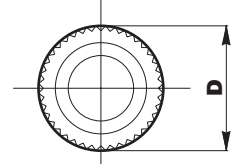
KNURLED THUMB KNOB

Male



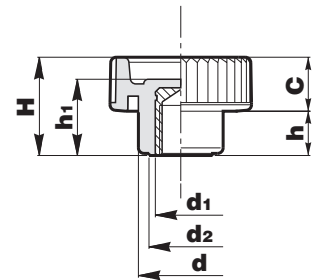
SPAENAUR No.	D	H	d	d1	d2	C	h	h1	L
135-W34-1M	0.83	0.59	0.51	1/4-20	0.37	0.33	0.26	0.49	0.50
135-W63-1P	0.83	0.59	0.51	1/4-20	0.37	0.33	0.26	0.49	1.00
135-W64-1Y	1.02	0.71	0.63	5/16-18	0.47	0.37	0.33	0.59	1.00
135-178	1.02	0.71	0.63	5/16-18	0.47	0.37	0.33	0.59	1.25

Thermoplastic Material



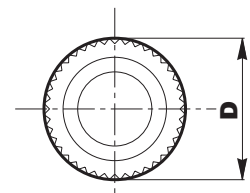
KNURLED THUMB KNOB

Female



SPAENAUR No.	D	H	d	d1	d2	C	h	h1
135-W27-1C	0.83	0.59	0.51	1/4-20	0.37	0.33	0.26	0.49
135-W65-1C	1.02	0.71	0.63	5/16-18	0.47	0.37	0.33	0.59
135-W66-1N	1.30	0.91	0.79	3/8-16	0.59	0.49	0.41	0.71

Thermoplastic Material



ALL ITEMS ON THIS PAGE - PKG QTY. 1

6-LOBE HANDWHEEL

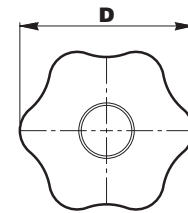
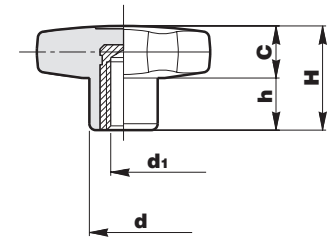
Female



All items on this page - PKG QTY. 1

SPAENAU
No.

	D	d	d1	H	C	h
135-W28-1N	1.18	0.59	1/4-20	0.79	0.39	0.39
135-180	1.18	0.59	5/16-18	0.79	0.39	0.39
135-181	1.18	0.59	3/8-16	0.79	0.39	0.39
135-182	1.58	0.67	1/4-20	0.95	0.45	0.49
135-W12-1A	1.58	0.67	5/16-18	0.95	0.45	0.49
135-W29-1T	1.58	0.67	3/8-16	0.95	0.45	0.49
135-021	1.97	0.79	5/16-18	1.12	0.55	0.57
135-184	1.97	0.79	3/8-16	1.12	0.55	0.57
135-W04-1N	1.97	0.79	1/2-13	1.12	0.55	0.57
135-W70-1K	2.36	0.95	3/8-16	1.30	0.59	0.71
135-185	2.36	0.95	1/2-13	1.30	0.59	0.71



Thermoplastic Material

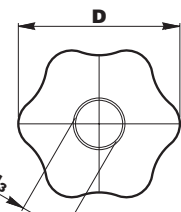
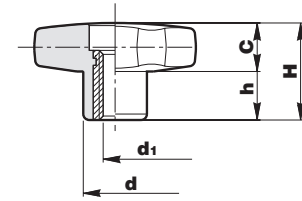
6-LOBE HANDWHEEL

Tapped Right Through



SPAENAU
No.

	D	d	d1	d3	H	C	h
135-W67-1T	1.18	0.59	1/4-20	0.45	0.79	0.39	0.39
135-W96-1M	1.18	0.59	5/16-18	0.45	0.79	0.39	0.39
135-W13-1P	1.58	0.67	1/4-20	0.47	0.95	0.45	0.49
135-025	1.58	0.67	5/16-18	0.47	0.95	0.45	0.49
135-W71-1W	1.58	0.67	3/8-16	0.47	0.95	0.45	0.49
135-189	1.97	0.79	5/16-18	0.55	1.12	0.55	0.57
135-190	1.97	0.79	3/8-16	0.55	1.12	0.55	0.57
135-W72-1M	2.36	0.95	3/8-16	0.63	1.30	0.59	0.71
135-W73-1X	2.36	0.95	1/2-13	0.63	1.30	0.59	0.71



Thermoplastic Material

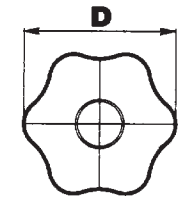
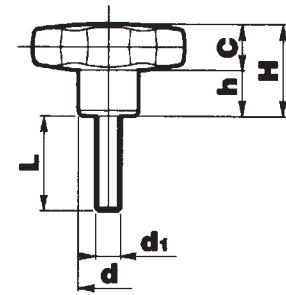
6-LOBE

Male



SPAENAU
No.

	D	d	d1	H	L	C	h
135-191	1.18	0.59	1/4-20	0.79	0.50	0.39	0.39
135-192	1.18	0.59	1/4-20	0.79	1.00	0.39	0.39
135-193	1.18	0.59	5/16-18	0.79	0.50	0.39	0.39
135-194	1.18	0.59	5/16-18	0.79	1.00	0.39	0.39
135-W33-1W	1.58	0.67	1/4-20	0.95	1.00	0.43	0.49
135-W74-1A	1.58	0.67	1/4-20	0.95	1.25	0.43	0.49
135-030	1.58	0.67	1/4-20	0.95	1.50	0.43	0.49
135-W90-1Y	1.58	0.67	5/16-18	0.95	1.00	0.43	0.49
135-W16-1N	1.58	0.67	5/16-18	0.95	1.25	0.43	0.49
135-W39-1C	1.58	0.67	5/16-18	0.95	1.50	0.43	0.49
135-W91-1C	1.97	0.79	5/16-18	1.12	1.00	0.55	0.57
135-033	1.97	0.79	5/16-18	1.12	1.25	0.55	0.57
135-W41-1C	1.97	0.79	5/16-18	1.12	1.50	0.55	0.57
135-240	1.97	0.79	3/8-16	1.12	1.00	0.55	0.57
135-035	1.97	0.79	3/8-16	1.12	1.25	0.55	0.57
135-W40-1Y	1.97	0.79	3/8-16	1.12	1.50	0.55	0.57
135-241	2.36	0.95	1/2-13	1.30	1.25	0.59	0.71
135-242	2.36	0.95	1/2-13	1.30	1.50	0.59	0.71
135-243	2.36	0.95	1/2-13	1.30	2.00	0.59	0.71

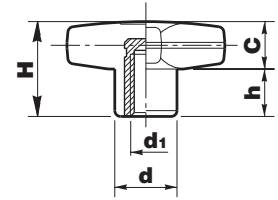


Thermoplastic Material

A tolerance of $\pm 0.125"$ is possible on Boteco non-critical measurements.

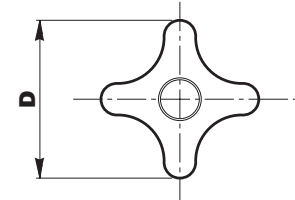
CROSS HANDWHEEL

Female



SPAENAUR

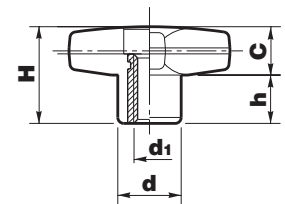
No.	D	d	d1	H	C	h
135-037	1.58	0.63	1/4-20	0.95	0.45	0.49
135-W97-1X	1.58	0.63	5/16-18	0.95	0.45	0.49
135-W75-1P	1.97	0.79	5/16-18	1.12	0.55	0.57
135-W09-1X	1.97	0.79	3/8-16	1.12	0.55	0.57
135-W42-1N	1.97	0.79	1/2-13	1.12	0.55	0.57



Thermoplastic Material

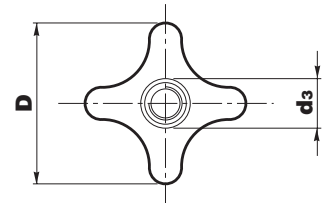
CROSS HANDWHEEL

Tapped Right Through



SPAENAUR

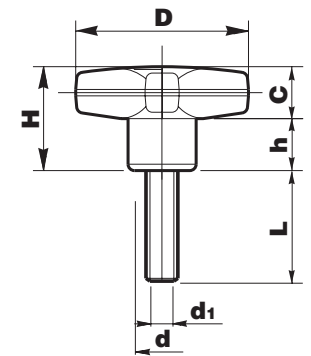
No.	D	d	d1	d3	H	C	h
135-W10-1M	1.58	0.63	1/4-20	0.51	0.95	0.45	0.49
135-W08-1M	1.97	0.79	5/16-18	0.59	1.12	0.55	0.57
135-W11-1X	1.97	0.79	3/8-16	0.59	1.12	0.55	0.57
135-W30-1N	2.36	0.95	1/2-13	0.67	1.30	0.59	0.71



Thermoplastic Material

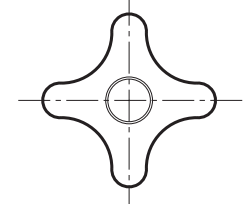
CROSS HANDWHEEL

Male



SPAENAUR

No.	D	d	d1	H	L	C	h
135-W26-1Y	1.58	0.63	1/4-20	0.95	0.50	0.45	0.49
135-W43-1T	1.58	0.63	1/4-20	0.95	1.00	0.45	0.49
135-W94-1K	1.58	0.63	5/16-18	0.95	1.00	0.45	0.49
135-W17-1T	1.58	0.63	5/16-18	0.95	1.25	0.45	0.49
135-W76-1Y	1.58	0.63	3/8-16	0.95	0.75	0.45	0.49
135-247	1.58	0.63	3/8-16	0.95	1.00	0.45	0.49
135-249	1.97	0.79	5/16-18	1.12	1.00	0.55	0.57
135-W45-1W	1.97	0.79	5/16-18	1.12	1.50	0.55	0.57
135-248	1.97	0.79	3/8-16	1.12	1.00	0.55	0.57
135-W44-1K	1.97	0.79	3/8-16	1.12	2.00	0.55	0.57
135-050	2.36	0.95	5/16-18	1.30	0.75	0.59	0.71
135-250	2.36	0.95	3/8-16	1.30	1.00	0.59	0.71
135-W77-1C	2.36	0.95	3/8-16	1.30	1.25	0.59	0.71
135-251	2.36	0.95	3/8-16	1.30	2.00	0.59	0.71
135-252	2.36	0.95	1/2-13	1.30	1.00	0.59	0.71
135-052	2.36	0.95	1/2-13	1.30	1.25	0.59	0.71
135-253	2.36	0.95	1/2-13	1.30	2.00	0.59	0.71

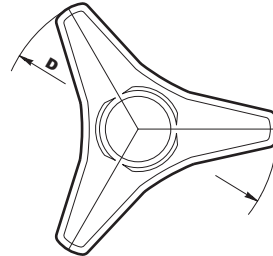
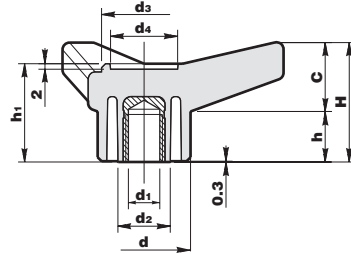


Thermoplastic Material

ALL ITEMS ON THIS PAGE - PKG QTY. 1

3 - LOBE HANDWHEEL

Female



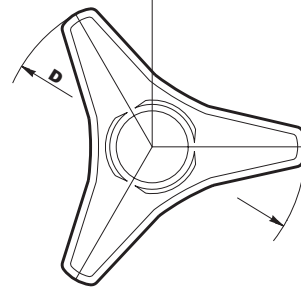
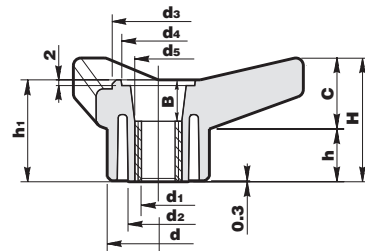
SPAENAU
No.

SPAENAU No.	D	d	d1	d2	d3	d4	h	h1	H	C
135-053	1.77	0.63	1/4-20	-	0.57	0.39	0.39	0.69	0.83	0.43
135-254	1.77	0.63	5/16-18	-	0.57	0.39	0.39	0.69	0.83	0.43
135-255	2.56	0.87	5/16-18	-	0.83	0.59	0.47	0.91	1.10	0.63
135-256	2.56	0.87	3/8-16	-	0.83	0.59	0.47	0.91	1.10	0.63
135-054	3.35	1.18	5/16-18	0.71	1.06	0.79	0.59	1.18	1.42	0.83
135-W60-1M	3.35	1.18	3/8-16	0.71	1.06	0.79	0.59	1.18	1.42	0.83
135-056	4.14	1.38	3/8-16	0.79	1.26	0.95	0.75	1.46	1.77	1.02
135-057	4.93	1.65	1/2-13	1.02	1.58	1.06	0.87	1.73	2.09	1.20

Thermoplastic Material

3 - LOBE HANDWHEEL

Tapped Right Through



SPAENAU
No.

SPAENAU No.	D	d	d1	d2	d3	d4	d5	h	h1	H	C	B
135-W05-1T	1.77	0.63	1/4-20	-	0.57	0.39	0.39	0.39	0.69	0.83	0.43	0.20
135-W18-1K	1.77	0.63	3/8-16	-	0.57	0.39	0.39	0.39	0.69	0.83	0.43	0.20
135-W19-1W	3.35	1.18	5/16-18	0.71	1.06	0.79	0.55	0.59	1.18	1.42	0.83	0.47
135-W61-1X	3.35	1.18	1/2-13	0.71	1.06	0.79	0.55	0.59	1.18	1.42	0.83	0.47
135-062	4.14	1.38	3/8-16	0.79	1.26	0.95	0.67	0.75	1.46	1.77	1.02	0.63
135-W78-1N	4.93	1.65	1/2-13	1.02	1.58	1.06	-	0.89	1.73	2.09	1.20	0.47

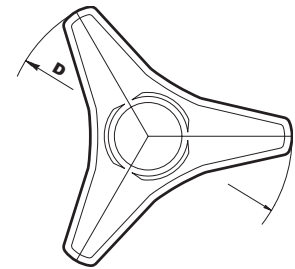
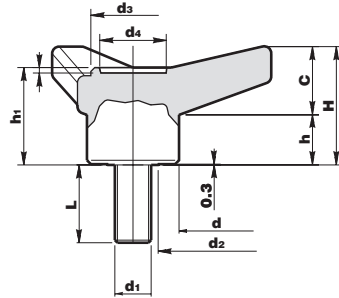
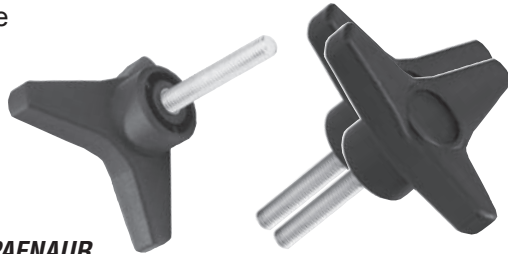
Thermoplastic Material

ALL ITEMS ON THIS PAGE - PKG QTY. 1

A tolerance of $\pm 0.125"$ is possible on Boteco non-critical measurements.

3 - LOBE HANDWHEEL

Male



SPAENAU
No.

	D	d	d1	d2	d3	d4	h	h1	H	C	L
135-258	1.77	0.63	1/4-20	-	0.57	0.39	0.39	0.69	0.83	0.43	0.50
135-257	1.77	0.63	1/4-20	-	0.57	0.39	0.39	0.69	0.83	0.43	1.00
135-W79-1T	1.77	0.63	1/4-20	-	0.57	0.39	0.39	0.69	0.83	0.43	1.25
135-259	1.77	0.63	5/16-18	-	0.57	0.39	0.39	0.69	0.83	0.43	0.50
135-260	1.77	0.63	5/16-18	-	0.57	0.39	0.39	0.69	0.83	0.43	1.00
135-W92-1N	2.56	0.86	5/16-18	-	0.83	0.59	0.47	0.91	1.10	0.63	1.00
135-065	2.56	0.86	5/16-18	-	0.83	0.59	0.47	0.91	1.10	0.63	1.25
135-262	2.56	0.86	3/8-16	-	0.83	0.59	0.47	0.91	1.10	0.63	1.00
135-W62-1A	2.56	0.86	3/8-16	-	0.83	0.59	0.47	0.91	1.10	0.63	1.25
135-264	3.35	1.18	3/8-16	0.71	1.06	0.78	0.59	1.18	1.41	0.83	1.00
135-263	3.35	1.18	3/8-16	0.71	1.06	0.78	0.59	1.18	1.41	0.83	1.50
135-265	3.35	1.18	1/2-13	0.71	1.06	0.78	0.59	1.18	1.41	0.83	1.00
135-266	3.35	1.18	1/2-13	0.71	1.06	0.78	0.59	1.18	1.41	0.83	1.50

Thermoplastic Material

4 - LOBE HANDWHEEL

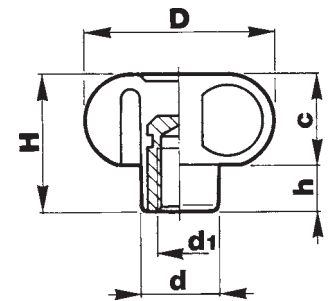
Female



SPAENAU
No.

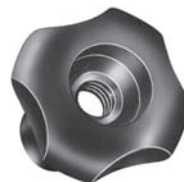
	D	H	d	d1	C	h
135-W80-1N	0.79	0.51	0.43	1/4-20	0.32	0.20
135-267	0.98	0.59	0.47	1/4-20	0.35	0.24
135-268	0.98	0.59	0.47	5/16-18	0.35	0.24
135-W20-1K	1.18	0.86	0.59	5/16-18	0.55	0.32
135-269	1.18	0.86	0.59	3/8-16	0.55	0.32
135-270	1.58	1.10	0.63	5/16-18	0.75	0.35
135-069	1.58	1.10	0.63	3/8-16	0.75	0.35
135-271	1.97	1.26	0.79	3/8-16	0.87	0.39
135-272	1.97	1.26	0.79	1/2-13	0.87	0.39
135-W81-1T	2.36	1.50	0.91	5/16-18	0.95	0.55
135-273	2.36	1.50	0.91	1/2-13	0.95	0.55

Thermoplastic Material



4 - LOBE HANDWHEEL

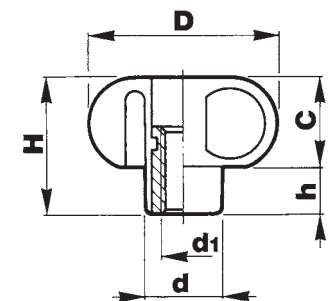
Tapped Right Through



SPAENAU
No.

	D	H	d	d1	C	h
135-W56-1K	1.57	1.10	0.63	1/4-20	0.75	0.35
135-072	1.57	1.10	0.63	5/16-18	0.75	0.35
135-274	1.57	1.10	0.63	3/8-16	0.75	0.35

Thermoplastic Material

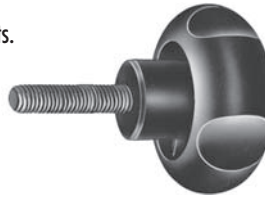


ALL ITEMS ON THIS PAGE - PKG QTY. 1

A tolerance of ± 0.125 " is possible on Boteco non-critical measurements.

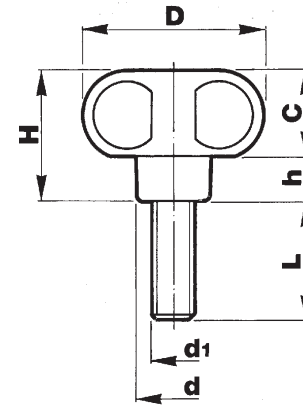
4 - LOBE HANDWHEEL

Male



SPAENAUR
No.

	D	H	d	d1	L	C	h
135-W95-1W	0.99	0.59	0.47	1/4-20	0.50	0.35	0.24
135-275	0.99	0.59	0.47	1/4-20	1.00	0.35	0.24
135-W31-1T	1.18	0.87	0.59	1/4-20	1.00	0.55	0.32
135-195	1.18	0.87	0.59	1/4-20	1.25	0.55	0.32
135-074	1.18	0.87	0.59	5/16-18	1.00	0.55	0.32
135-196	1.18	0.87	0.59	5/16-18	1.25	0.55	0.32
135-198	1.18	0.87	0.59	3/8-16	1.00	0.55	0.32
135-197	1.18	0.87	0.59	3/8-16	1.25	0.55	0.32
135-W07-1W	1.58	1.10	0.63	5/16-18	1.00	0.75	0.35
135-W25-1P	1.58	1.10	0.63	5/16-18	1.50	0.75	0.35
135-075	1.58	1.10	0.63	3/8-16	1.00	0.75	0.35
135-201	1.58	1.10	0.63	3/8-16	1.25	0.75	0.35
135-202	1.97	1.26	0.79	3/8-16	1.00	0.87	0.39
135-W57-1W	1.97	1.26	0.79	3/8-16	1.50	0.87	0.39
135-204	1.97	1.26	0.79	1/2-13	1.00	0.87	0.39
135-203	1.97	1.26	0.79	1/2-13	1.50	0.87	0.39
135-W58-1M	2.36	1.49	0.91	1/2-13	1.50	0.95	0.55
135-205	2.36	1.49	0.91	1/2-13	2.00	0.95	0.55



Thermoplastic Material

J

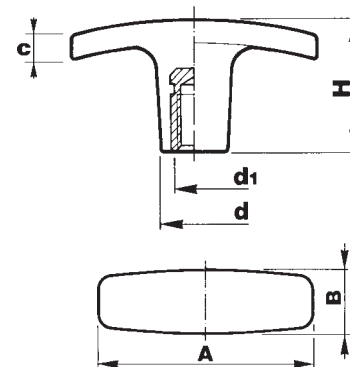
"T" HANDLE

Female



SPAENAUR
No.

	A	H	c	d	d1	B
135-W47-1X	1.97	0.95	0.20	0.55	1/4-20	0.59
135-W03-1C	2.36	1.26	0.24	0.59	5/16-18	0.67



Thermoplastic Material

Also available with a moulded thread.

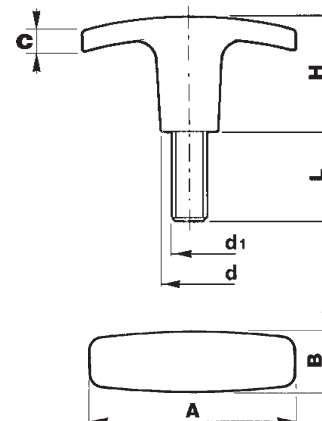
"T" HANDLE

Male



SPAENAUR
No.

	A	H	c	d	d1	B	L
135-W82-1K	2.36	1.26	0.24	0.59	1/4-20,	0.67	.75



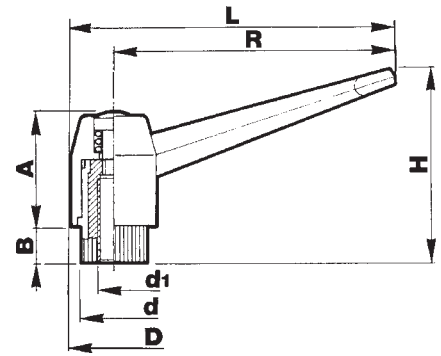
Thermoplastic Material

ALL ITEMS ON THIS PAGE - PKG QTY. 1

Attaching screws supplied slotted or hex socket drive at mfr's option.

INDEXED CLAMPING LEVER

Female (with Metal Insert)



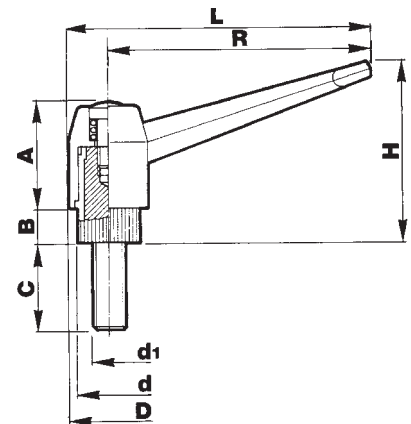
SPAENAUR No.

SPAENAUR No.	R	L	H	D	A	d	B	d1
135-081	1.69	2.05	1.38	0.71	0.79	0.47	0.24	1/4-20
135-082	2.56	3.03	1.81	0.91	1.06	0.59	0.32	1/4-20
135-083	2.56	3.03	1.81	0.91	1.06	0.59	0.32	5/16-18
135-084	3.27	3.82	2.25	1.10	1.30	0.75	0.39	5/16-18
135-085	3.27	3.82	2.25	1.10	1.30	0.75	0.39	3/8-16
135-W21-1W	4.10	4.73	2.76	1.30	1.54	0.95	0.43	3/8-16
135-206	4.10	4.73	2.76	1.30	1.54	0.95	0.43	1/2-13

Thermoplastic Material

INDEXED CLAMPING LEVER

Male



SPAENAUR No.

SPAENAUR No.	R	L	H	D	A	d	B	d1	C
135-W49-1P	1.69	2.05	1.38	0.71	0.79	0.47	0.24	1/4-20	0.75
135-088	1.69	2.05	1.38	0.71	0.79	0.47	0.24	1/4-20	1.00
135-W50-1A	1.69	2.05	1.38	0.71	0.79	0.47	0.24	1/4-20	1.25
135-209	2.56	3.03	1.81	0.91	1.06	0.59	0.32	1/4-20	0.75
135-208	2.56	3.03	1.81	0.91	1.06	0.59	0.32	1/4-20	1.00
135-207	2.56	3.03	1.81	0.91	1.06	0.59	0.32	1/4-20	1.25
135-090	2.56	3.03	1.81	0.91	1.06	0.59	0.32	5/16-18	0.75
135-091	2.56	3.03	1.81	0.91	1.06	0.59	0.32	5/16-18	1.00
135-092	2.56	3.03	1.81	0.91	1.06	0.59	0.32	5/16-18	1.25
135-211	3.27	3.82	2.25	1.10	1.30	0.75	0.39	5/16-18	1.00
135-212	3.27	3.82	2.25	1.10	1.30	0.75	0.39	5/16-18	1.25
135-W22-1M	3.27	3.82	2.25	1.10	1.30	0.75	0.39	3/8-16	0.75
135-094	3.27	3.82	2.25	1.10	1.30	0.75	0.39	3/8-16	1.00
135-095	3.27	3.82	2.25	1.10	1.30	0.75	0.39	3/8-16	1.25

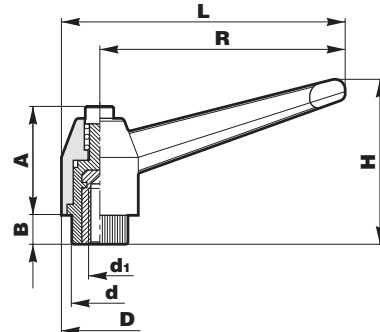
Thermoplastic Material

ALL ITEMS ON THIS PAGE - PKG QTY. 1

A tolerance of ± 0.125 " is possible on Boteco non-critical measurements.

CLAMPING LEVER

Push Button (Metal Insert)



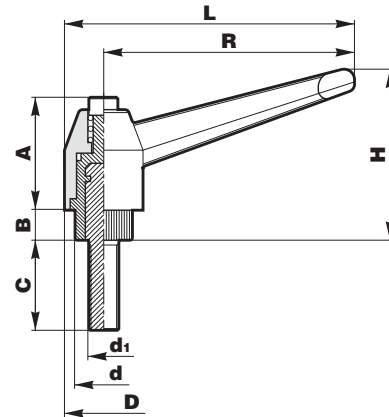
SPAENAUR No.

	R	L	H	D	A	d	B	d1
135-096	1.69	2.05	1.38	0.71	0.79	0.47	0.24	1/4-20
135-215	2.56	3.03	1.81	0.91	1.06	0.59	0.32	1/4-20
135-W35-1X	2.56	3.03	1.81	0.91	1.06	0.59	0.32	5/16-18
135-W51-1P	3.27	3.82	2.25	1.10	1.30	0.75	0.39	5/16-18
135-216	3.27	3.82	2.25	1.10	1.30	0.75	0.39	3/8-16
135-217	4.10	4.73	2.76	1.30	1.54	0.95	0.43	3/8-16
135-W83-1W	4.10	4.73	2.76	1.30	1.54	0.95	0.43	1/2-13

Black Thermoplastic Material

CLAMPING LEVER

Push Button (Male Thread)
with zinc plated steel stud.



SPAENAUR No.

	R	L	H	D	A	d	B	C	d1
135-100	1.69	2.05	1.38	0.71	0.79	0.47	0.24	0.75	1/4-20
135-101	1.69	2.05	1.38	0.71	0.79	0.47	0.24	1.00	1/4-20
135-220	2.56	3.03	1.81	0.91	1.06	0.89	0.32	0.75	1/4-20
135-219	2.56	3.03	1.81	0.91	1.06	0.89	0.32	1.00	1/4-20
135-102	2.56	3.03	1.81	0.91	1.06	0.89	0.32	1.25	1/4-20
135-W84-1M	2.56	3.03	1.81	0.91	1.06	0.89	0.32	0.75	5/16-18
135-104	2.56	3.03	1.81	0.91	1.06	0.89	0.32	1.00	5/16-18
135-221	2.56	3.03	1.81	0.91	1.06	0.89	0.32	1.25	5/16-18
135-222	3.27	3.82	2.25	1.10	1.30	0.75	0.39	0.75	5/16-18
135-223	3.27	3.82	2.25	1.10	1.30	0.75	0.39	1.00	5/16-18
135-W85-1X	3.27	3.82	2.25	1.10	1.30	0.75	0.39	1.25	5/16-18
135-W52-1Y	3.27	3.82	2.25	1.10	1.30	0.75	0.39	1.00	3/8-16
135-W23-1X	3.27	3.82	2.25	1.10	1.30	0.75	0.39	1.25	3/8-16
135-224	3.27	3.82	2.25	1.10	1.30	0.75	0.39	1.50	1/2-13

Thermoplastic Material

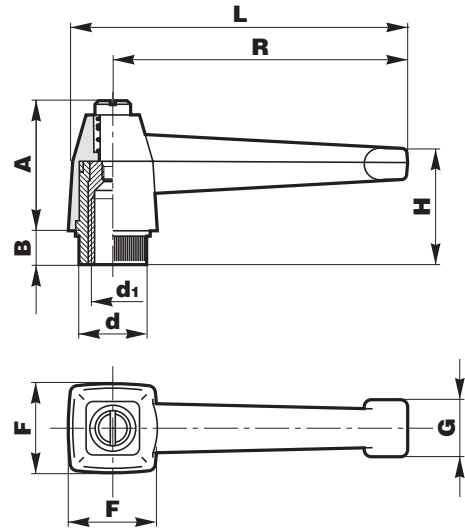
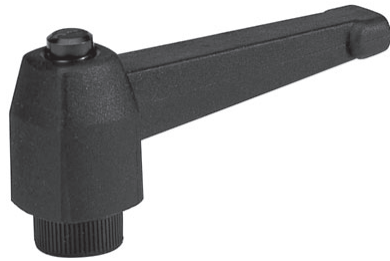
ALL ITEMS ON THIS
PAGE - PKG QTY. 1

J

Attaching screws supplied slotted or hex socket drive at mfr's. option.

CLAMPING LEVER WITH 90° ARM

Female (with Steel Insert)

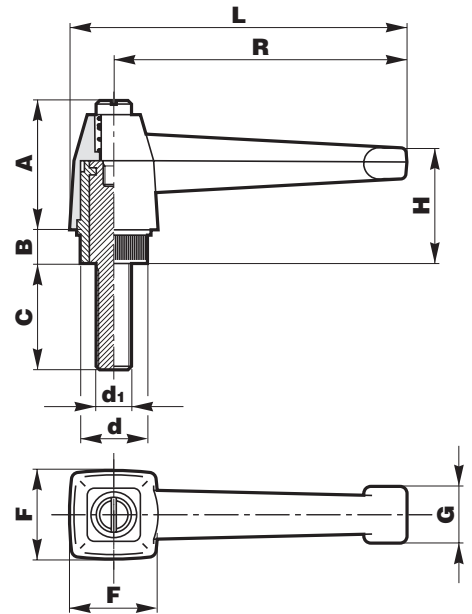


SPAENAUR No.	R	L	H	d	A	B	F	G	d1
135-108	3.27	3.70	0.95	0.75	1.46	0.39	0.99	0.63	5/16-18

Thermoplastic Material

CLAMPING LEVER WITH 90° ARM

Male



SPAENAUR No.	R	L	H	d	A	B	F	G	C	d1
135-109	3.27	3.70	0.95	0.75	1.46	0.39	0.99	0.63	1.25	5/16-18

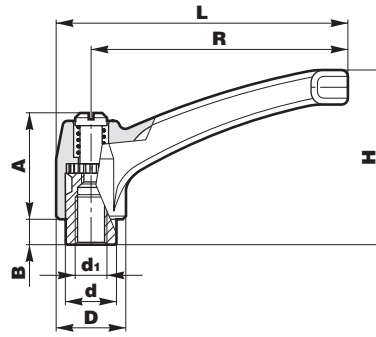
Thermoplastic Material

ALL ITEMS ON THIS PAGE - PKG QTY. 1

Attaching screws supplied slotted or hex socket drive at mfr's. option.

ZINC DIE CAST INDEXED

Clamping Lever
Female, with Steel Insert

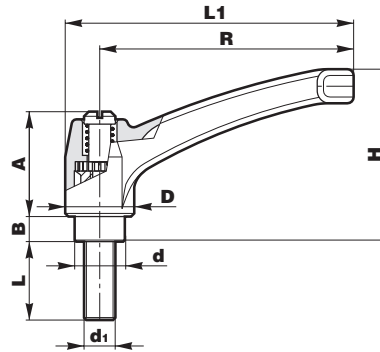


SPAENAUR No.	R	L	H	A	B	D	d	d1
135-W53-1C	1.69	1.97	1.20	0.95	0.20	0.55	0.39	1/4-20
135-226	2.56	2.96	1.77	1.10	0.28	0.75	0.55	1/4-20
135-W87-1P	2.56	2.96	1.77	1.10	0.28	0.75	0.55	5/16-18
135-132	3.15	3.59	2.21	1.32	0.33	0.87	0.63	5/16-18
135-W36-1A	3.15	3.59	2.21	1.32	0.33	0.87	0.63	3/8-16
135-134	3.70	4.22	2.56	1.54	0.39	1.02	0.79	3/8-16
135-W93-1T	3.70	4.22	2.56	1.54	0.39	1.02	0.79	1/2-13

Colour: Chemical Black

ZINC DIE CAST INDEXED

Clamping Lever
Male



SPAENAUR No.	R	L1	H	L	A	B	D	d	d1
135-110	1.69	1.97	1.20	0.75	0.95	0.20	0.55	0.39	1/4-20
135-W54-1N	1.69	1.97	1.20	1.00	0.95	0.20	0.55	0.39	1/4-20
135-228	1.69	1.97	1.20	1.25	0.95	0.20	0.55	0.39	1/4-20
135-229	2.56	2.96	1.77	1.00	1.06	0.28	0.75	0.55	1/4-20
135-112	2.56	2.96	1.77	1.25	1.06	0.28	0.75	0.55	1/4-20
135-113	2.56	2.96	1.77	0.75	1.06	0.28	0.75	0.55	5/16-18
135-114	2.56	2.96	1.77	1.00	1.06	0.28	0.75	0.55	5/16-18
135-230	2.56	2.96	1.77	1.25	1.06	0.28	0.75	0.55	5/16-18
135-231	2.56	2.96	1.77	1.00	1.06	0.28	0.75	0.55	3/8-16
135-232	2.56	2.96	1.77	1.25	1.06	0.28	0.75	0.55	3/8-16
135-W55-1T	3.15	3.59	2.21	1.25	1.32	0.33	0.87	0.63	5/16-18
135-116	3.15	3.59	2.21	1.00	1.32	0.33	0.87	0.63	1/2-13
135-117	3.15	3.59	2.21	1.25	1.32	0.33	0.87	0.63	1/2-13

Thermoplastic Material
Colour: Chemical Black

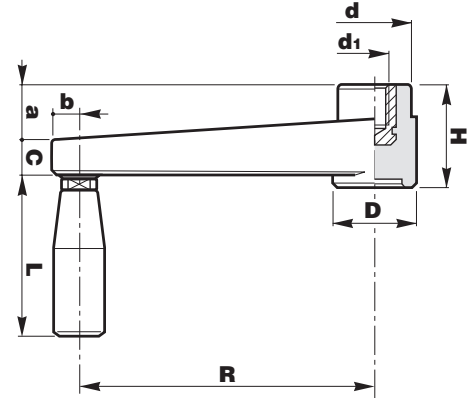
ALL ITEMS ON THIS PAGE - PKG QTY. 1

J

A tolerance of $\pm 0.125"$ is possible on Boteco non-critical measurements.

CRANK HANDLE

Female, with Metal Insert

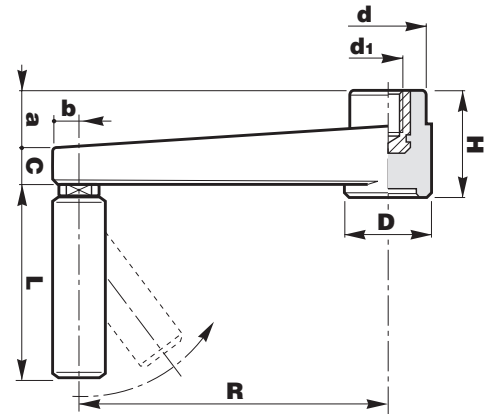


SPAENAUR No.	R	H	d	D	d1	C	a	L	b
135-118	3.15	1.30	1.02	1.22	5/16-18	0.51	0.71	2.21	0.43
135-W01-3P	4.33	1.54	1.14	1.34	3/8-16	0.55	0.99	2.60	0.47
135-120	5.52	1.93	1.38	1.69	1/2-13	0.63	1.38	2.99	0.51

Thermoplastic Material

CRANK HANDLE

With Folding Handle
Female, with Metal Insert

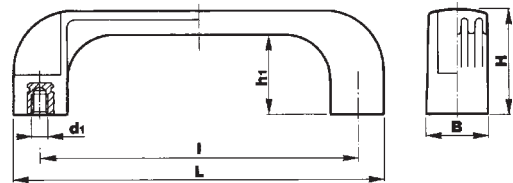


SPAENAUR No.	R	H	d	D	d1	C	a	L	b
135-121	3.15	1.30	1.02	1.22	5/16-18	0.51	0.71	2.21	0.43
135-122	4.33	1.54	1.14	1.34	3/8-16	0.55	0.99	2.60	0.47
135-W02-1Y	5.52	1.93	1.38	1.69	1/2-13	0.63	1.38	2.99	0.51

Thermoplastic Material

BRIDGE HANDLE

Female Insert

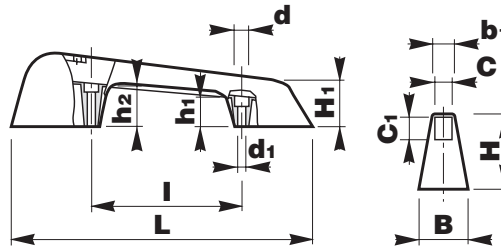


SPAENAUR No.	L	I	B	H	h1	d	d1
135-236	4.33	3.70	0.83	1.46	1.14	0.43	1/4-20
135-W86-1A	5.51	4.61	0.95	1.58	1.20	0.55	1/4-20
135-W46-1M	5.95	5.20	1.02	1.69	1.30	0.55	5/16-18
135-126	10.24	9.26	1.26	2.09	1.62	0.67	3/8-16

Thermoplastic Material

ALL ITEMS ON THIS PAGE - PKG QTY. 1

BRIDGE HANDLE



SPAENAUR No.	L	I	B	b1	H	H1	h1	h2	d	d1	C	C1
135-127	10.56	5.20	1.73	0.79	2.52	1.81	3.39	1.34	0.53	0.33	0.61	0.81

Thermoplastic Material

PKG QTY. 1

A tolerance of $\pm 0.125"$ is possible on Boteco® non-critical measurements.



See more Boteco® Knobs, Handwheels & Handles on page J68-J80

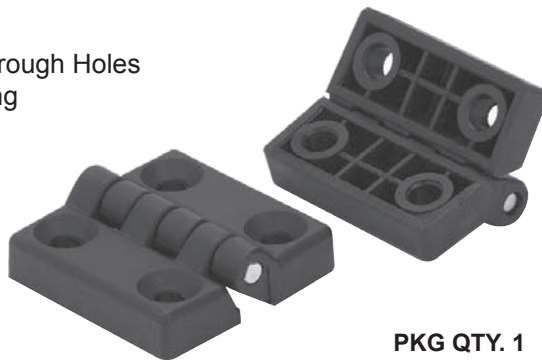
See pages L84 for Boteco® Plastic Hinges.

HINGES

Countersunk Through Holes
Exterior Mounting

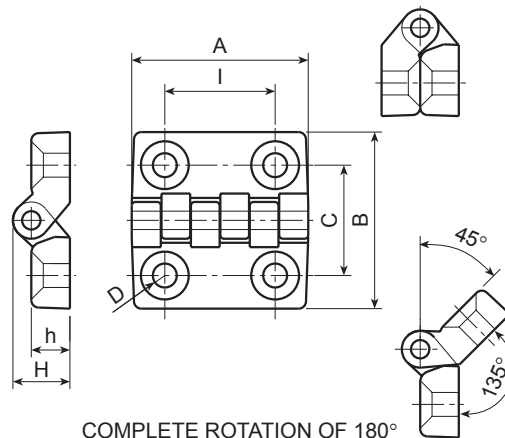
MATERIAL:
Reinforced Polyamide.
Oil and grease resistant.

PIN:
Steel, zinc plated
or Stainless Steel



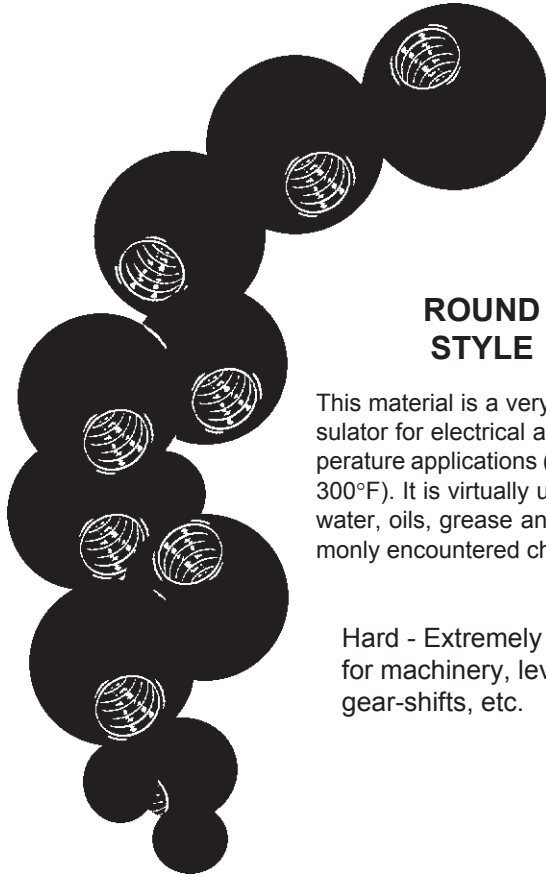
PKG QTY. 1

SURFACE: Satin. **COLOUR:** Black.



COMPLETE ROTATION OF 180°

SPAENAUR No.	I	C	A	B	h	H	D	Pin Dia.	Pin Material
135-151	0.79	0.79	1.26	1.26	0.28	0.41	0.16	0.11	Steel
135-154	0.79	0.79	1.26	1.26	0.28	0.41	0.16	0.11	Stainless
135-W48-1A	1.18	1.18	1.89	1.89	0.41	0.57	0.26	0.19	Steel
135-155	1.18	1.18	1.89	1.89	0.41	0.57	0.26	0.19	Stainless
135-W32-1K	1.58	1.58	2.52	2.52	0.51	0.75	0.26	0.19	Steel
135-W06-1K	1.58	1.58	2.52	2.52	0.51	0.75	0.26	0.19	Stainless



ROUND STYLE

This material is a very effective insulator for electrical and high-temperature applications (up to **149°C**, 300°F). It is virtually unaffected by water, oils, grease and most commonly encountered chemicals.

Hard - Extremely Tough for machinery, levers, gear-shifts, etc.

PKG QTY. 10

See page J82 for Round Style with Tapped Brass Inserts.

BLACK PHENOLIC BALL KNOBS

Inch Sizes

SPAENAU No.	Outside Dia.	Thread Size	Depth of Thread
134-C11-1A	1"	10-24	1/2"
134-209	1"	1/4"-20	1/2"
134-C03-1N	1"	5/16"-18	1/2"
134-C04-1T	1-1/4"	3/8"-16	3/4"
134-066	1-3/8"	1/4"-20	1/2"
134-C13-1Y	1-3/8"	3/8"-16	5/8"
K-54	1-7/8"	3/8"-16	1-1/4"
134-C15-1N	1-7/8"	1/2"-13	3/4"
K-54-1	1-7/8"	5/8"-18	7/8"

Metric (Coarse) Thread

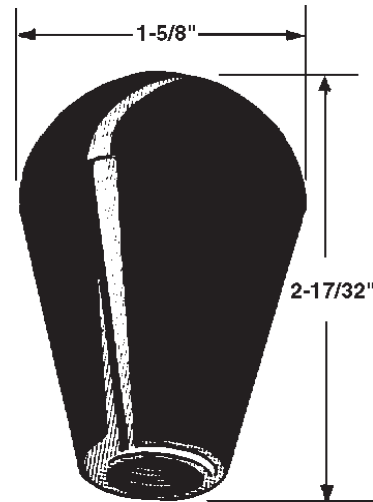
134-604	1-5/8"	M16	1"
134-605	1-7/8"	M12	1"
134-607	1-7/8"	M16	7/8"

PEAR SHAPE

PKG QTY. 10

Inch Sizes

SPAENAU No.	Outside Dia.	Thread Size	Depth of Thread
134-C16-1T	1-5/8"	3/8"-16	1-1/8"
134-C17-1K	1-5/8"	1/2"-13	1-1/8"



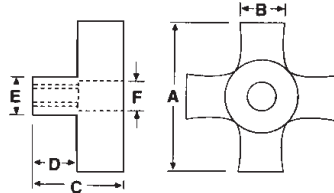
4-PRONG PLASTIC KNOBS

Black Phenolic with Brass insert

Excellent gripping action. Widely used for machines, components, clamping and consumer products.



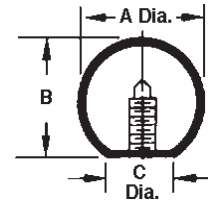
Thru Hole Brass Insert



BLACK PHENOLIC BALL KNOBS

This material is a very effective insulator for electrical and high-temperature applications (up to 149°C, 300°F). It is virtually unaffected by water, oils, grease and most commonly encountered chemicals.

With... Tapped Brass Inserts for greater thread strength.

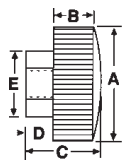


ROUND STYLE Inch Sizes

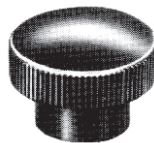
SPAENAUR No.	Thread Size	Dimensions		
		A	B	C
134-015	1/4"-20	3/4"	11/16"	3/8"
134-001	10-24	1"	31/32"	1/2"
134-004	1/4"-20	1"	31/32"	1/2"
134-002	5/16"-18	1"	31/32"	1/2"
134-003	3/8"-16	1"	31/32"	1/2"
134-005	1/4"-20	1-3/8"	1-19/64"	5/8"
134-006	5/16"-18	1-3/8"	1-19/64"	5/8"
134-007	3/8"-16	1-3/8"	1-19/64"	5/8"
134-008	5/16"-18	1-5/8"	1-37/64"	11/16"
134-009	3/8"-16	1-5/8"	1-37/64"	11/16"
134-010	1/2"-13	1-5/8"	1-37/64"	11/16"
134-011	3/8"-16	1-7/8"	1-51/64"	3/4"
134-012	1/2"-13	1-7/8"	1-51/64"	3/4"
134-C14-1C	5/8"-11	1-7/8"	1-51/64"	3/4"

KNURLED PLASTIC KNOB

Black Phenolic with Brass insert



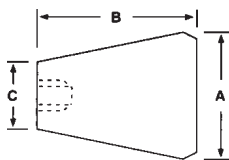
Ideally suited for medium and light duty applications.



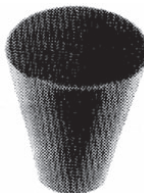
SPAENAUR No.	A	B	C	D	E	Insert		PKG QTY.
						Thread	Depth	
134-016	1-7/8"	5/16"	1"	1/2"	1"	3/8"-16	1/2"	10

TAPERED PLASTIC KNOB

Black Phenolic with Brass insert



Ideal for finger tip levers and push-pull or lid knobs.



SPAENAUR No.	A	B	C	Insert		PKG QTY.
				Thread	Depth	
134-017	3/4"	7/8"	3/8"	8-32	5/16"	10

Metric (Coarse) Thread

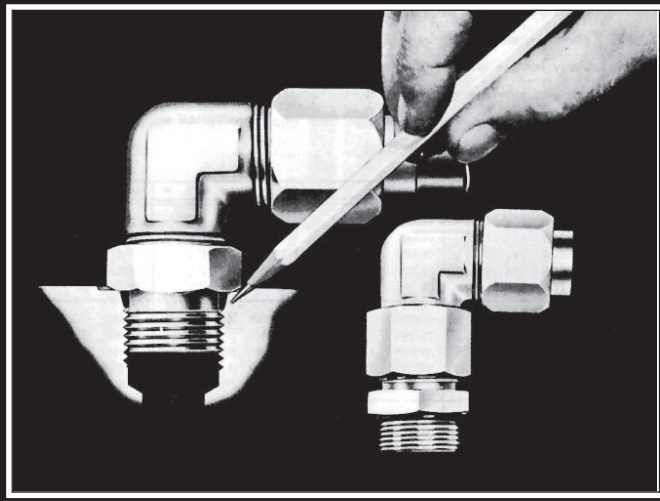
134-611	M10	1-3/8"	1-19/64"	5/8"
134-612	M12	1-3/8"	1-19/64"	5/8"
134-613	M12	1-7/8"	1-51/64"	3/4"
134-614	M16	1-7/8"	1-51/64"	3/4"

ALL ABOVE ITEMS - PKG QTY. 10

For more KNOBS see pages B284, B285 & J68-J74.



FOR TUBE FITTINGS



SPAENAUR
can supply the right
NITRILE O-Ring
to suit **YOUR** purpose.

The Nitrile O-Rings listed below are made especially for use with internal straight fluid connection bosses and tube fittings.

Temperature Range -40°C to +121°C (-40°F to +250°F) 70 Durometer SPAENAU No.	Temperature Range -34°C to +121°C (-30°F to +250°F) 90 Durometer SPAENAU No.	TUBE SIZE		O-RING SIZE Thread	
		Tube O.D.	Size	I.D.	W.
OR-901N	OR-901NA	3/32"		.185"	.056"
OR-902N	OR-902NA	1/8"	5/16"-24	.239"	.064"
OR-903N	OR-903NA	3/16"	3/8"-24	.301"	.064"
OR-904N	OR-904NA	1/4"	7/16"-20	.351"	.072"
OR-905N	OR-905NA	5/16"	1/2"-20	.414"	.072"
OR-906N	OR-906NA	3/8"	9/16"-18	.468"	.078"
OR-907N	OR-907NA	7/16"		.530"	.082"
OR-908N	319-W01-1P	1/2"	3/4"-16	.644"	.087"
OR-909N	OR-909NA	9/16"		.706"	.097"
OR-910N	OR-910NA	5/8"	7/8"-14	.755"	.097"
OR-911N	OR-911NA	11/16"		.863"	.116"
318-A02-1C	OR-912NA	3/4"	1-1/16"-12	.924"	.116"
OR-913N	OR-913NA	13/16"		.986"	.116"
OR-914N	OR-914NA	7/8"	1-3/16"-12	1.047"	.116"
OR-916N	OR-916NA	1"	1-5/16"-12	1.171"	.116"
OR-918N	OR-918NA	1-1/8"		1.355"	.116"
OR-920N	OR-920NA	1-1/4"	1-5/8"-12	1.475"	.118"
OR-924N	OR-924NA	1-1/2"	1-7/8"-12	1.720"	.118"
OR-928N	OR-928NA	1-3/4"	2-1/2"-12	2.090"	.118"
OR-932N	OR-932NA	2		2.337"	.118"

Contact Sales Desk For Package Quantities

STOCKED O-RINGS in SPECIAL COMPOUNDS

SPAENAU No.	O-RING SIZE			TYPE OF COMPOUND	TEMPERATURE RANGE (°C)	DURO- METER	PKG QTY.
	I.D.	O.D.	W.				
OR-006-N-H	1/8"	1/4"	1/16"	N299-50 Nitrile, Black	-54 to +107	50	100
324-001	11/16"	15/16"	1/8"	C557-7 Neoprene, CR, Black	-54 to +149	70	100
324-002	1/2"	5/8"	1/16"	C557-7 Neoprene, CR, Black	-54 to +149	70	100

From Stock - the FULL RANGE

INCH SIZES

See pages J84 to J89.

METRIC SIZES

See pages J90 & J92.

OR - "Make Your Own" - See below

**INCH
O-RING
SPLICING CORD**
Nitrile



Solve that problem of LARGE O-Ring availability. Use the **SPAENAUR No. 805-A05-2M** (shown below) Splicing Kit to make practically any (inch) size O-Ring right on the job. Instructions, adhesive, razor blade, cutting & splicing jig, also 5 sizes of 70 durometer Nitrile cord, all included in kit. Or, you can purchase the cord in continuous lengths, as listed below, along with tubes of the rapid-set adhesive, etc.

**O-RING SPLICING CORD
INCH SIZES**

70 Durometer Nitrile (Buna N)

For general purpose, mineral & petroleum oil, air and water.
Operating temp: **-40°C to +121°C**

SPAENAUR No.	Diameter	PKG QTY.
825-B01-1P	0.070"	100 ft.
825-174	0.103"	100 ft.
825-175	0.139"	100 ft.
825-507	0.1875"	100 ft.
825-176	0.210"	100 ft.
825-177	0.275"	50 ft.
825-178	0.313"	50 ft.
825-179	0.375"	50 ft.

ASSORTMENT 805-A05-2M
O-RING SPLICING KIT
8 PIECES - 8 SIZES



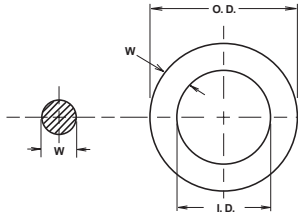
Kit comes in a Regular Size Grey Enamelled STEEL drawer, and will fit the Slide Racks as shown on page A2

Drawer: 13³/₈" x 9¹/₄" x 2"
Shipping Weight: **1.93 kg** (4-1/4 lbs.)



Name	Spaenaur No.	Outer Diameter		Qty.
O-Ring Splicing Cord	825-B01-1P	0.070"		5'
	825-174	0.103"		
	825-175	0.139"		
	825-176	0.210"		
	825-177	0.275"		
Name	Spaenaur No.	Blade Length	Blade Width	Qty.
Cutting & Splicing Jig	877-505	4" (overall)	16" (overall)	1
Razor Blade	877-504	1-1/2"	3/4"	
Name	Spaenaur No.	Weight		Qty.
Turbo Fuse Super Glue	800-B78-1W	2 g		2

Colour: **BLACK**



O-Rings of NITRILE (BUNA N)

All "N" suffixed rings listed on pages J85 and J86 are furnished in 70 Shore A Durometer, NITRILE (Buna N). They are recommended for general purpose sealing, and particularly for use with petroleum oils and fluids, water, silicone greases and oils, di-ester base lubricants, and ethylene glycol base fluids.

O-Rings are also widely used for power transmission from small motors. All measurements are in inches and are subject to commercial tolerances.

Temperature Range **-40°C to +121°C** (-40°F to +250 °F).

SPAENAU No.	I.D.	Nom. O.D.	W.	SPAENAU No.	I.D.	Nom. O.D.	W.	SPAENAU No.	I.D.	Nom. O.D.	W.	SPAENAU No.	I.D.	Nom. O.D.	W.
OR-001N	.029	3/32	.040	OR-044N	3.739	3-7/8	.070	OR-143N	2.425	2-5/8	.103	OR-214N	.984	1-1/4	.139
OR-002N	.041	9/64	.050	OR-045N	3.989	4-1/8	.070	OR-144N	2.487	2-11/16	.103	OR-215N	1.046	1-5/16	.139
318-A06-1W	.056	3/16	.060	OR-046N	4.239	4-3/8	.070	OR-145N	2.550	2-3/4	.103	OR-216N	1.109	1-3/8	.139
OR-004N	.070	13/64	.070	OR-047N	4.489	4-5/8	.070	OR-146N	2.612	2-13/16	.103	OR-217N	1.171	1-7/16	.139
318-A04-1T	.101	7/32	.070	OR-048N	4.739	4-7/8	.070	OR-147N	2.675	2-7/8	.103	OR-218N	1.234	1-1/2	.139
OR-006N	.114	1/4	.070	OR-049N	4.989	5-1/8	.070	OR-148N	2.737	2-15/16	.103	OR-219N	1.296	1-9/16	.139
318-A09-1A	.145	9/32	.070	318-A01-1Y	5.239	5-3/8	.070	OR-149N	2.800	3	.103	OR-220N	1.359	1-5/8	.139
318-A07-1M	.176	5/16	.070	OR-104N	.112	5/16	.103	OR-150N	2.862	3-1/16	.103	OR-221N	1.421	1-11/16	.139
OR-009N	.208	11/32	.070	318-A10-1X	.174	3/8	.103	OR-151N	2.987	3-3/16	.103	OR-222N	1.484	1-3/4	.139
OR-010N	.239	3/8	.070	318-A05-1K	.237	7/16	.103	OR-152N	3.237	3-7/16	.103	OR-223N	1.609	1-7/8	.139
OR-011N	.301	7/16	.070	OR-110N	.362	9/16	.103	OR-153N	3.487	3-11/16	.103	OR-224N	1.734	2	.139
318-A08-1X	.364	1/2	.070	OR-111N	.424	5/8	.103	OR-154N	3.737	3-15/16	.103	OR-225N	1.859	2-1/8	.139
OR-013N	.426	9/16	.070	OR-112N	.487	11/16	.103	OR-155N	3.987	4-3/16	.103	OR-226N	1.984	2-1/4	.139
OR-014N	.489	5/8	.070	OR-113N	.549	3/4	.103	OR-156N	4.237	4-7/16	.103	OR-227N	2.109	2-3/8	.139
OR-015N	.551	11/16	.070	OR-114N	.612	13/16	.103	OR-157N	4.487	4-11/16	.103	OR-228N	2.234	2-1/2	.139
OR-016N	.614	3/4	.070	OR-115N	.674	7/8	.103	OR-158N	4.737	4-15/16	.103	OR-229N	2.359	2-5/8	.139
OR-017N	.676	13/16	.070	OR-116N	.737	15/16	.103	OR-159N	4.987	5-3/16	.103	OR-230N	2.484	2-3/4	.139
OR-018N	.739	7/8	.070	OR-117N	.799	1	.103	OR-160N	5.237	5-7/16	.103	OR-231N	2.609	2-7/8	.139
OR-019N	.801	15/16	.070	OR-118N	.862	1-1/16	.103	OR-161N	5.487	5-11/16	.103	OR-232N	2.734	3	.139
OR-020N	.864	1	.070	OR-119N	.924	1-1/8	.103	OR-162N	5.737	5-15/16	.103	OR-233N	2.859	3-1/8	.139
OR-021N	.926	1-1/16	.070	OR-120N	.987	1-3/16	.103	OR-163N	5.987	6-3/16	.103	OR-234N	2.984	3-1/4	.139
OR-022N	.989	1-1/8	.070	OR-121N	1.049	1-1/4	.103	OR-164N	6.237	6-7/16	.103	OR-235N	3.109	3-3/8	.139
OR-023N	1.051	1-3/16	.070	OR-122N	1.112	1-5/16	.103	OR-165N	6.487	6-11/16	.103	OR-236N	3.234	3-1/2	.139
OR-024N	1.114	1-1/4	.070	OR-123N	1.174	1-3/8	.103	OR-166N	6.737	6-15/16	.103	*OR-236EA	3.250	3-1/2	.125
OR-025N	1.176	1-5/16	.070	OR-124N	1.237	1-7/16	.103	OR-167N	6.987	7-3/16	.103	OR-237N	3.359	3-5/8	.139
OR-026N	1.239	1-3/8	.070	OR-125N	1.299	1-1/2	.103	OR-168N	7.237	7-7/16	.103	OR-238N	3.484	3-3/4	.139
OR-027N	1.301	1-7/16	.070	OR-126N	1.362	1-9/16	.103	OR-169N	7.487	7-11/16	.103	OR-239N	3.609	3-7/8	.139
OR-028N	1.364	1-1/2	.070	OR-127N	1.424	1-5/8	.103	OR-170N	7.737	7-15/16	.103	OR-240N	3.734	4	.139
OR-029N	1.489	1-5/8	.070	OR-128N	1.487	1-11/16	.103	OR-171N	7.987	8-3/16	.103	OR-241N	3.859	4-1/8	.139
OR-030N	1.614	1-3/4	.070	OR-129N	1.549	1-3/4	.103	OR-172N	8.237	8-7/16	.103	OR-242N	3.984	4-1/4	.139
OR-031N	1.739	1-7/8	.070	OR-130N	1.612	1-13/16	.103	OR-173N	8.487	8-11/16	.103	OR-243N	4.109	4-3/8	.139
OR-032N	1.864	2	.070	OR-131N	1.674	1-7/8	.103	OR-174N	8.737	8-15/16	.103	OR-244N	4.234	4-1/2	.139
OR-033N	1.989	2-1/8	.070	OR-132N	1.737	1-15/16	.103	OR-175N	8.987	9-3/16	.103	OR-245N	4.359	4-5/8	.139
OR-034N	2.114	2-1/4	.070	OR-133N	1.799	2	.103	OR-176N	9.237	9-7/16	.103	OR-246N	4.484	4-3/4	.139
OR-035N	2.239	2-3/8	.070	OR-134N	1.862	2-1/16	.103	OR-177N	9.487	9-11/16	.103	OR-247N	4.609	4-7/8	.139
318-A03-1N	2.364	2-1/2	.070	OR-135N	1.925	2-1/8	.103	OR-178N	9.737	9-15/16	.103	OR-248N	4.734	5	.139
OR-037N	2.489	2-5/8	.070	OR-136N	1.987	2-3/16	.103	OR-205N	.421	11/16	.139	OR-249N	4.859	5-1/8	.139
OR-038N	2.614	2-3/4	.070	OR-137N	2.050	2-1/4	.103	▲318-004	7/16	11/16	1/8	OR-250N	4.984	5-1/4	.139
OR-039N	2.739	2-7/8	.070	OR-138N	2.112	2-5/16	.103	▲318-005	1/2	3/4	1/8	OR-251N	5.109	5-3/8	.139
OR-040N	2.864	3	.070	OR-139N	2.175	2-3/8	.103	OR-210N	.734	1	.139	OR-252N	5.234	5-1/2	.139
OR-041N	2.989	3-1/8	.070	OR-140N	2.237	2-7/16	.103	OR-211N	.796	1-1/16	.139	OR-253N	5.359	5-5/8	.139
OR-042N	3.239	3-3/8	.070	OR-141N	2.300	2-1/2	.103	OR-212N	.859	1-1/8	.139	OR-254N	5.484	5-3/4	.139
OR-043N	3.489	3-5/8	.070	OR-142N	2.362	2-9/16	.103	OR-213N	.921	1-3/16	.139	OR-255N	5.609	5-7/8	.139

Contact Sales Desk For Package Quantities
See section 'R' for
Compound Selection Guide



▲Cross-section of Quad Rings
318-004 & 318-005

*Ethylene Propylene

continued next page...

Continued from Previous Page				O-Rings of NITRILE (BUNA N)											
SPAENAUR No.	I.D.	Nom. O.D.	W.	SPAENAUR No.	I.D.	Nom. O.D.	W.	SPAENAUR No.	I.D.	Nom. O.D.	W.	SPAENAUR No.	I.D.	Nom. O.D.	W.
OR-256N	5.734	6	.139	OR-336N	2.850	3-1/4	.210	OR-376N	9.725	10-1/8	.210	OR-445N	7.975	8-1/2	.275
OR-257N	5.859	6-1/8	.139	OR-337N	2.975	3-3/8	.210	OR-377N	9.975	10-3/8	.210	OR-446N	8.475	9	.275
OR-258N	5.984	6-1/4	.139	OR-338N	3.100	3-1/2	.210	OR-378N	10.475	10-7/8	.210	OR-447N	8.975	9-1/2	.275
OR-259N	6.234	6-1/2	.139	OR-339N	3.225	3-5/8	.210	OR-379N	10.975	11-3/8	.210	OR-448N	9.475	10	.275
OR-260N	6.484	6-3/4	.139	OR-340N	3.350	3-3/4	.210	OR-380N	11.475	11-7/8	.210	OR-449N	9.975	10-1/2	.275
OR-261N	6.734	7	.139	OR-341N	3.475	3-7/8	.210	OR-381N	11.975	12-3/8	.210	OR-450N	10.475	11	.275
OR-262N	6.984	7-1/4	.139	OR-342N	3.600	4	.210	OR-382N	12.975	13-3/8	.210	OR-451N	10.975	11-1/2	.275
OR-263N	7.234	7-1/2	.139	OR-343N	3.725	4-1/8	.210	OR-383N	13.975	14-3/8	.210	OR-452N	11.475	12	.275
OR-264N	7.484	7-3/4	.139	OR-344N	3.850	4-1/4	.210	OR-384N	14.975	15-3/8	.210	OR-453N	11.975	12-1/2	.275
OR-265N	7.734	8	.139	OR-345N	3.975	4-3/8	.210	OR-385N	15.955	16-3/8	.210	OR-454N	12.475	13	.275
OR-266N	7.984	8-1/4	.139	OR-346N	4.100	4-1/2	.210	OR-386N	16.955	17-3/8	.210	OR-455N	12.975	13-1/2	.275
OR-267N	8.234	8-1/2	.139	OR-347N	4.225	4-5/8	.210	OR-387N	17.955	18-3/8	.210	OR-456N	13.475	14	.275
OR-268N	8.484	8-3/4	.139	OR-348N	4.350	4-3/4	.210	OR-388N	18.955	19-3/8	.210	OR-457N	13.975	14-1/2	.275
OR-269N	8.734	9	.139	OR-349N	4.475	4-7/8	.210	OR-389N	19.955	20-3/8	.210	OR-458N	14.475	15	.275
OR-270N	8.984	9-1/4	.139	OR-350N	4.600	5	.210	OR-390N	20.955	21-3/8	.210	OR-459N	14.975	15-1/2	.275
OR-271N	9.234	9-1/2	.139	OR-351N	4.725	5-1/8	.210	OR-391N	21.955	22-3/8	.210	OR-460N	15.475	16	.275
OR-272N	9.484	9-3/4	.139	OR-352N	4.850	5-1/4	.210	OR-392N	22.940	23-3/8	.210	OR-461N	15.955	16-1/2	.275
OR-273N	9.734	10	.139	OR-353N	4.975	5-3/8	.210	OR-393N	23.940	24-3/8	.210	OR-462N	16.455	17	.275
OR-274N	9.984	10-1/4	.139	OR-354N	5.100	5-1/2	.210	OR-394N	24.940	25-3/8	.210	OR-463N	16.955	17-1/2	.275
OR-275N	10.484	10-3/4	.139	OR-355N	5.225	5-5/8	.210	OR-395N	25.940	26-3/8	.210	OR-464N	17.455	18	.275
OR-276N	10.984	11-1/4	.139	OR-356N	5.350	5-3/4	.210	OR-425N	4.475	5	.275	OR-465N	17.955	18-1/2	.275
OR-277N	11.484	11-3/4	.139	OR-357N	5.475	5-7/8	.210	OR-426N	4.600	5-1/8	.275	OR-466N	18.455	19	.275
OR-278N	11.984	12-1/4	.139	OR-358N	5.600	6	.210	OR-427N	4.725	5-1/4	.275	OR-467N	18.955	19-1/2	.275
OR-279N	12.984	13-1/4	.139	OR-359N	5.725	6-1/8	.210	OR-428N	4.850	5-3/8	.275	OR-468N	19.455	20	.275
OR-280N	13.984	14-1/4	.139	OR-360N	5.850	6-1/4	.210	OR-429N	4.975	5-1/2	.275	OR-469N	19.955	20-1/2	.275
OR-281N	14.984	15-1/4	.139	OR-361N	5.975	6-3/8	.210	OR-430N	5.100	5-5/8	.275	OR-470N	20.955	21-1/2	.275
OR-282N	15.955	16-1/4	.139	OR-362N	6.225	6-5/8	.210	OR-431N	5.225	5-3/4	.275	OR-471N	21.955	22-1/2	.275
OR-283N	16.955	17-1/4	.139	OR-363N	6.475	6-7/8	.210	OR-432N	5.350	5-7/8	.275	OR-472N	22.940	23-1/2	.275
OR-284N	17.955	18-1/4	.139	OR-364N	6.725	7-1/8	.210	OR-433N	5.475	6	.275	OR-473N	23.940	24-1/2	.275
OR-325N	1.475	1-7/8	.210	OR-365N	6.975	7-3/8	.210	OR-434N	5.600	6-1/8	.275	OR-474N	24.940	25-1/2	.275
OR-326N	1.600	2	.210	OR-366N	7.225	7-5/8	.210	OR-435N	5.725	6-1/4	.275	OR-475N	25.940	26-1/2	.275
OR-327N	1.725	2-1/8	.210	OR-367N	7.475	7-7/8	.210	OR-436N	5.850	6-3/8	.275				
OR-328N	1.850	2-1/4	.210	OR-368N	7.725	8-1/8	.210	OR-437N	5.975	6-1/2	.275				
OR-329N	1.975	2-3/8	.210	OR-369N	7.975	8-3/8	.210	OR-438N	6.225	6-3/4	.275				
OR-330N	2.100	2-1/2	.210	OR-370N	8.225	8-5/8	.210	OR-439N	6.475	7	.275				
OR-331N	2.225	2-5/8	.210	OR-371N	8.475	8-7/8	.210	OR-440N	6.725	7-1/4	.275				
OR-332N	2.350	2-3/4	.210	OR-372N	8.725	9-1/8	.210	OR-441N	6.975	7-1/2	.275				
OR-333N	2.475	2-7/8	.210	OR-373N	8.975	9-3/8	.210	OR-442N	7.225	7-3/4	.275				
OR-334N	2.600	3	.210	OR-374N	9.225	9-5/8	.210	OR-443N	7.475	8	.275				
OR-335N	2.725	3-1/8	.210	OR-375N	9.475	9-7/8	.210	OR-444N	7.725	8-1/4	.275				

— For reference only —
**COMPARISON CHART FOR
 WIDTH OF O-RING MATERIAL**

Nominal	Actual
1/32"	= .040"
3/64"	= .050"
1/16"	= .060" (If I.D. is .056")
1/16"	= .070" (If I.D. is .070")
3/32"	= .103"
1/8"	= .139"
3/16"	= .210"
1/4"	= .275"

Contact Sales Desk For Package Quantities

In addition to the regular stock numbers listed above, O-Rings are also available in compounds for specialized applications. Prices upon application.

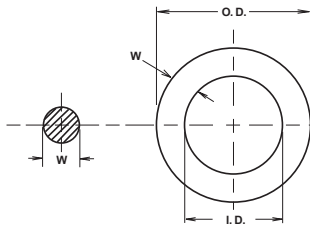
If you need a special O-Ring for a special purpose, we will do our utmost to supply exactly what you need.

NOTE: See "O-Ring Lubricants" - page J90.



Colour: **BLACK**

O-Rings of VITON



The rings listed on pages J87 and J88 are furnished in 75 Shore A Durometer, Viton. These versatile elastomers have excellent mechanical and physical properties for general-purpose sealing, and outstanding resistance to aromatic fuels, HIGH TEMPERATURE synthetic lubricants, and many of the new fire-resistant industrial fluids.

Temperature Range: **-29°C to +204°C** (-20°F to +400°F).

All measurements are in inches and are subject to commercial tolerances.

SPAENAUR No.	I.D.	Nom. O.D.	W.	SPAENAUR No.	I.D.	Nom. O.D.	W.	SPAENAUR No.	I.D.	Nom. O.D.	W.	SPAENAUR No.	I.D.	Nom. O.D.	W.
320-001	.029	3/32	.040	320-045	3.989	4-1/8	.070	320-148	2.737	2-15/16	.103	320-223	1.609	1-7/8	.139
320-002	.041	9/64	.050	320-046	4.239	4-3/8	.070	320-149	2.800	3	.103	320-224	1.734	2	.139
320-003	.056	3/16	.060	320-047	4.489	4-5/8	.070	320-150	2.862	3-1/16	.103	320-225	1.859	2-1/8	.139
320-004	.070	13/64	.070	320-048	4.739	4-7/8	.070	320-151	2.987	3-3/16	.103	320-226	1.984	2-1/4	.139
320-005	.101	7/32	.070	320-049	4.989	5-1/8	.070	320-152	3.237	3-7/16	.103	320-227	2.109	2-3/8	.139
320-006	.114	1/4	.070	320-050	5.239	5-3/8	.070	320-153	3.487	3-11/16	.103	320-228	2.234	2-1/2	.139
320-007	.145	9/32	.070	320-110	.362	9/16	.103	320-154	3.737	3-15/16	.103	320-229	2.359	2-5/8	.139
320-008	.176	5/16	.070	320-111	.424	5/8	.103	320-155	3.987	4-3/16	.103	320-230	2.484	2-3/4	.139
320-009	.208	11/32	.070	320-112	.487	11/16	.103	320-156	4.237	4-7/16	.103	320-231	2.609	2-7/8	.139
320-010	.239	3/8	.070	320-113	.549	3/4	.103	320-157	4.487	4-11/16	.103	320-232	2.734	3	.139
320-011	.301	7/16	.070	320-114	.612	13/16	.103	320-158	4.737	4-15/16	.103	320-233	2.859	3-1/8	.139
320-012	.364	1/2	.070	320-115	.674	7/8	.103	320-159	4.987	5-3/16	.103	320-234	2.984	3-1/4	.139
320-013	.426	9/16	.070	320-116	.737	15/16	.103	320-160	5.237	5-7/16	.103	320-235	3.109	3-3/8	.139
320-014	.489	5/8	.070	320-117	.799	1	.103	320-161	5.487	5-11/16	.103	320-236	3.234	3-1/2	.139
320-015	.551	11/16	.070	320-118	.862	1-1/16	.103	320-162	5.737	5-15/16	.103	320-237	3.359	3-5/8	.139
320-016	.614	3/4	.070	320-119	.924	1-1/8	.103	320-163	5.987	6-3/16	.103	320-238	3.484	3-3/4	.139
320-017	.676	13/16	.070	320-120	.987	1-3/16	.103	320-164	6.237	6-7/16	.103	320-239	3.609	3-7/8	.139
320-018	.739	7/8	.070	320-121	1.049	1-1/4	.103	320-165	6.487	6-11/16	.103	320-240	3.734	4	.139
320-019	.801	15/16	.070	320-122	1.112	1-5/16	.103	320-166	6.737	6-15/16	.103	320-241	3.859	4-1/8	.139
320-020	.864	1	.070	320-123	1.174	1-3/8	.103	320-167	6.987	7-3/16	.103	320-242	3.984	4-1/4	.139
320-021	.926	1-1/16	.070	320-124	1.237	1-7/16	.103	320-168	7.237	7-7/16	.103	320-243	4.109	4-3/8	.139
320-022	.989	1-1/8	.070	320-125	1.299	1-1/2	.103	320-169	7.487	7-11/16	.103	320-244	4.234	4-1/2	.139
320-023	1.051	1-3/16	.070	320-126	1.362	1-9/16	.103	320-170	7.737	7-15/16	.103	320-245	4.359	4-5/8	.139
320-024	1.114	1-1/4	.070	320-127	1.424	1-5/8	.103	320-171	7.987	8-3/16	.103	320-246	4.484	4-3/4	.139
320-025	1.176	1-5/16	.070	320-128	1.487	1-11/16	.103	320-172	8.237	8-7/16	.103	320-247	4.609	4-7/8	.139
320-026	1.239	1-3/8	.070	320-129	1.549	1-3/4	.103	320-173	8.487	8-11/16	.103	320-248	4.734	5	.139
320-027	1.301	1-7/16	.070	320-130	1.612	1-13/16	.103	320-174	8.737	8-15/16	.103	320-249	4.859	5-1/8	.139
320-028	1.364	1-1/2	.070	320-131	1.674	1-7/8	.103	320-175	8.987	9-3/16	.103	320-250	4.984	5-1/4	.139
320-029	1.489	1-5/8	.070	320-132	1.737	1-15/16	.103	320-176	9.237	9-7/16	.103	320-251	5.109	5-3/8	.139
320-030	1.614	1-3/4	.070	320-133	1.799	2	.103	320-177	9.487	9-11/16	.103	320-252	5.234	5-1/2	.139
320-031	1.739	1-7/8	.070	320-134	1.862	2-1/16	.103	320-178	9.737	9-15/16	.103	320-253	5.359	5-5/8	.139
320-032	1.864	2	.070	320-135	1.925	2-1/8	.103	320-210	.734	1	.139	320-254	5.484	5-3/4	.139
320-033	1.989	2-1/8	.070	320-136	1.987	2-3/16	.103	320-211	.796	1-1/16	.139	320-255	5.609	5-7/8	.139
320-034	2.114	2-1/4	.070	320-137	2.050	2-1/4	.103	320-212	.859	1-1/8	.139	320-256	5.734	6	.139
320-035	2.239	2-3/8	.070	320-138	2.112	2-5/16	.103	320-213	.921	1-3/16	.139	320-257	5.859	6-1/8	.139
320-036	2.364	2-1/2	.070	320-139	2.175	2-3/8	.103	320-214	.984	1-1/4	.139	320-258	5.984	6-1/4	.139
320-037	2.489	2-5/8	.070	320-140	2.237	2-7/16	.103	320-215	1.046	1-5/16	.139	320-259	6.234	6-1/2	.139
320-038	2.614	2-3/4	.070	320-141	2.300	2-1/2	.103	320-216	1.109	1-3/8	.139	320-260	6.484	6-3/4	.139
320-039	2.739	2-7/8	.070	320-142	2.362	2-9/16	.103	320-217	1.171	1-7/16	.139	320-261	6.734	7	.139
320-040	2.864	3	.070	320-143	2.425	2-5/8	.103	320-218	1.234	1-1/2	.139	320-262	6.984	7-1/4	.139
320-041	2.989	3-1/8	.070	320-144	2.487	2-15/16	.103	320-219	1.296	1-9/16	.139	320-263	7.234	7-1/2	.139
320-042	3.239	3-3/8	.070	320-145	2.550	2-3/4	.103	320-220	1.359	1-5/8	.139	320-264	7.484	7-3/4	.139
320-043	3.489	3-5/8	.070	320-146	2.612	2-13/16	.103	320-221	1.421	1-11/16	.139	320-265	7.734	8	.139
320-044	3.739	3-7/8	.070	320-147	2.675	2-7/8	.103	320-222	1.484	1-3/4	.139	320-266	7.984	8-1/4	.139

Contact Sales Desk For Package Quantities

continued next page...

CATALOG 14.09 SPAENAUR

Continued from Previous Page **O-Rings of VITON - Black**

SPAENAUR No.	I.D.	Nom. O.D.	W.	SPAENAUR No.	I.D.	Nom. O.D.	W.	SPAENAUR No.	I.D.	Nom. O.D.	W.
320-267	8.234	8-1/2	.139	320-362	6.225	6-5/8	.210	320-446	8.475	9	.275
320-268	8.484	8-3/4	.139	320-363	6.475	6-7/8	.210	320-447	8.975	9-1/2	.275
320-269	8.734	9	.139	320-364	6.725	7-1/8	.210	320-448	9.475	10	.275
320-270	8.984	9-1/4	.139	320-365	6.975	7-3/8	.210	320-449	9.975	10-1/2	.275
320-271	9.234	9-1/2	.139	320-366	7.225	7-5/8	.210	320-450	10.475	11	.275
320-281	14.984	15-1/4	.139	320-367	7.475	7-7/8	.210	320-451	10.975	11-1/2	.275
320-282	15.955	16-1/4	.139	320-368	7.725	8-1/8	.210	320-452	11.475	12	.275
320-325	1.475	1-7/8	.210	320-369	7.975	8-3/8	.210	320-453	11.975	12-1/2	.275
320-326	1.600	2	.210	320-370	8.225	8-5/8	.210	320-454	12.475	13	.275
320-327	1.725	2-1/8	.210	320-371	8.475	8-7/8	.210	320-455	12.975	13-1/2	.275
320-328	1.850	2-1/4	.210	320-372	8.725	9-1/8	.210	320-456	13.475	14	.275
320-329	1.975	2-3/8	.210	320-373	8.975	9-3/8	.210	320-457	13.975	14-1/2	.275
320-330	2.100	2-1/2	.210	320-374	9.225	9-5/8	.210	320-458	14.475	15	.275
320-331	2.225	2-5/8	.210	320-375	9.475	9-7/8	.210	320-459	14.975	15-1/2	.275
320-332	2.350	2-3/4	.210	320-376	9.725	10-1/8	.210	320-460	15.475	16	.275
320-333	2.475	2-7/8	.210	320-377	9.975	10-3/8	.210				
320-334	2.600	3	.210	320-378	10.475	10-7/8	.210				
320-335	2.725	3-1/8	.210	320-379	10.975	11-3/8	.210				
320-336	2.850	3-1/4	.210	320-380	11.475	11-7/8	.210				
320-337	2.975	3-3/8	.210	320-381	11.975	12-3/8	.210				
320-338	3.100	3-1/2	.210	320-382	12.975	13-3/8	.210				
320-339	3.225	3-5/8	.210	320-383	13.975	14-3/8	.210				
320-340	3.350	3-3/4	.210	320-384	14.975	15-3/8	.210				
320-341	3.475	3-7/8	.210	320-425	4.475	5	.275				
320-342	3.600	4	.210	320-426	4.600	5-1/8	.275				
320-343	3.725	4-1/8	.210	320-427	4.725	5-1/4	.275				
320-344	3.850	4-1/4	.210	320-428	4.850	5-3/8	.275				
320-345	3.975	4-3/8	.210	320-429	4.975	5-1/2	.275				
320-346	4.100	4-1/2	.210	320-430	5.100	5-5/8	.275				
320-347	4.225	4-5/8	.210	320-431	5.225	5-3/4	.275				
320-348	4.350	4-3/4	.210	320-432	5.350	5-7/8	.275				
320-349	4.475	4-7/8	.210	320-433	5.475	6	.275				
320-350	4.600	5	.210	320-434	5.600	6-1/8	.275				
320-351	4.725	5-1/8	.210	320-435	5.725	6-1/4	.275				
320-352	4.850	5-1/4	.210	320-436	5.850	6-3/8	.275				
320-353	4.975	5-3/8	.210	320-437	5.975	6-1/2	.275				
320-354	5.100	5-1/2	.210	320-438	6.225	6-3/4	.275				
320-355	5.225	5-5/8	.210	320-439	6.475	7	.275				
320-356	5.350	5-3/4	.210	320-440	6.725	7-1/4	.275				
320-357	5.475	5-7/8	.210	320-441	6.975	7-1/2	.275				
320-358	5.600	6	.210	320-442	7.225	7-3/4	.275				
320-359	5.725	6-1/8	.210	320-443	7.475	8	.275				
320-360	5.850	6-1/4	.210	320-444	7.725	8-1/4	.275				
320-361	5.975	6-3/8	.210	320-445	7.975	8-1/2	.275				

Please see page J86 for Comparison Chart for Width of O-Ring Material.

Contact Sales Desk For Package Quantities

NOTE (1): See "O-Ring Lubricants" - page J90.

See section 'R' for Compound Selection Guide

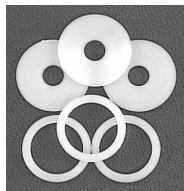
ASSORTMENT 805-448 ~DIN 125A ~ ISO 7089

Inch & Metric FLAT WASHERS
6/6 Nylon

Spaenaur No.	Compatible Bolt Size	Inner Diameter	Outer Diameter	Thickness	Qty.	Page	
655-010	M3	3.2mm	7mm	0.5mm	100	D15	
655-C01-1M	M4	4.3mm	9mm	0.8mm	80		
655-012	M5	5.3mm	11mm	1.0mm	70		
655-013	M6	6.4mm	12mm	1.5mm	60		
655-015	M8	8.4mm	16mm	1.6mm	50		
655-016	M10	10.5mm	22mm	2.5mm	40		
655-017	M12	13.0mm	24mm		35		
655-018	M16	17.0mm	30mm	3.0mm	30		
655-019	M20	21.0mm	37mm		30		
654-G02-1A	#4	0.115"	0.250"	0.032"	100		D10
654-003	#6	0.140"	0.312"	0.062"	80	D10 H34	
654-G06-1N	#8	0.170"	0.375"		70	D10	
654-004	#10	0.194"			60	D10 J43	
654-G07-1T	1/4"	0.257"	0.500"		50	D10	
654-G13-1X	5/16"	0.317"			40		
654-007	3/8"	0.380"	0.625"		35	D10	
654-008	7/16"	0.443"			0.750"		30
654-009	1/2"	0.505"					



18 Sizes - 1000 Pieces



Shipping Weight: 2.27 kg (5 lb.)

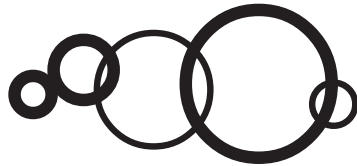
SPAENAUR CATALOG 14.09

Inch

Pouce

ASSORTMENT 805-606
ASSORTIMENT 805-606

O-RING SEALS
Made of Viton



Temperature Range: **-40° to +121°C** (-40° to +250°F).

36 VARIETIES
428 PIECES

Width	Spaenaur No.	Inner Diameter	Outer Diameter	Qty.	Page	
0.070"	320-006	0.114"	1/4"	30	J87	
	320-007	0.145"	9/32"			
	320-008	0.176"	5/16"			
	320-009	0.208"	11/32"			
	320-010	0.239"	3/8"			
	320-011	0.301"	7/16"			
	320-012	0.364"	1/2"	20		
	0.103"	320-013	0.426"	9/16"		15
		320-014	0.489"	5/8"		
		320-015	0.551"	11/16"		
		320-016	0.614"	3/4"		
		320-110	0.362"	9/16"		
320-111		0.424"	5/8"			
320-112	0.487"	11/16"				
320-113	0.549"	3/4"				
320-114	0.612"	13/16"				
320-115	0.674"	7/8"				
0.139"	320-116	0.737"	15/16"	6		
	320-210	0.734"	1"			
	320-211	0.796"	1-1/16"			
	320-212	0.859"	1-1/8"			
	320-213	0.921"	1-3/16"			
	320-214	0.984"	1-1/4"			
	320-215	1.046"	1-5/16"			
	320-216	1.109"	1-3/8"			
	320-217	1.171"	1-7/16"			
	320-218	1.234"	1-1/2"			
	320-219	1.296"	1-9/16"			
	320-220	1.359"	1-5/8"			
	320-221	1.421"	1-11/16"			
	320-222	1.484"	1-3/4"			
320-223	1.609"	1-7/8"				
320-224	1.734"	2"				
0.210"	320-325	1.475"	1-7/8"	J88		
	320-326	1.600"	2"			
	320-327	1.725"	2-1/8"			

Furnished in Large Size Grey enameled STEEL
 Drawer, with scooped bins. Size: 18" x 12" x 3".
 Drawer will fit into the Slide Racks, shown on page A3.
 Shipping Wt. **3.96 kg** (8-3/4 lbs.)

PLASTIKIT 804-001
 «PLASTIKIT»

O-RING SEALS
Viton
19 SIZES
78 PIECES



Spaenaur No.	Outer Diameter	Inner Diameter	Qty.	Page
320-006	1/4"	0.114"	5	J87
320-007	9/32"	0.145"		
320-008	5/16"	0.176"		
320-009	11/32"	0.208"		
320-010	3/8"	0.239"		
320-011	7/16"	0.301"		
320-012	1/2"	0.364"	3	
320-110	9/16"	0.362"	5	
320-013		0.426"		
320-111	5/8"	0.424"	3	
320-014		0.489"		
320-112	11/16"	0.487"	3	
320-015		0.551"	5	
320-113		0.549"	3	
320-016	3/4"	0.614"	5	
320-114		0.612"	3	
320-115	7/8"	0.674"		
320-116	15/16"	0.737"		
320-210	1"	0.734"	2	

PLASTIKIT 804-069
 «PLASTIKIT»

O-RING SEALS
Nitrile
19 SIZES
78 PIECES



Spaenaur No.	Outer Diameter	Inner Diameter	Qty.	Page
OR-006N	1/4"	0.114"	5	J85
OR-007N	9/32"	0.145"		
OR-008N	5/16"	0.176"		
OR-009N	11/32"	0.208"		
OR-010N	3/8"	0.239"		
OR-011N	7/16"	0.301"		
OR-012N	1/2"	0.364"	3	
OR-110N	9/16"	0.362"	5	
OR-013N		0.426"		
OR-014N	5/8"	0.489"	3	
OR-112N		0.487"		
OR-015N	11/16"	0.551"	5	
OR-113N		0.549"	3	
OR-016N		0.614"	5	
OR-114N	13/16"	0.612"	3	
OR-111N		7/8"		
OR-115N	0.674"			
OR-116N	15/16"	0.737"		
OR-210N	1"	0.734"	2	

CATALOG 14

SPAENAUR

Recommended O-RING Lubricants

(LUBRICANTS NOT SUPPLIED BY SPAENAUR)

LUBRICANT	TEMPERATURE RANGE	SEAL USE	BEST USED WITH
*Petroleum Base Petrolatum	-20 to +180°F -29 to +82°C (may vary between sources)	Assembly of petroleum system components i.e.fuel and hydraulic	Nitrile, Neoprene, Viton
▲ Barium grease Parker O-Lube	-20 to +300°F -29 to +149°C	Pneumatic (low pressure-200 psi max)	Nitrile, Neoprene, Viton and most other petroleum oil resistant rubbers
*Silicone oil (200,000 centi-stokes only)	-65 to +440°F -64 to +227°C	Pneumatic-High pressures and speeds	Some Nitrile, Neoprene, Viton (will cause shrinkage of some compounds)
Cellulose ester & castor oil Celvacene	-40 to +266°F -40 to +130°C	Vacuum Static 1 x 10 ⁻⁷ Torr	Silicone, Nitrile, Neoprene, Viton, Butyl, Ethylene-Propylene
Silicone Grease Versilube	-100 to +400°F -73 to +204°C	Pneumatic 3000 psi and high speed	Nitrile, Neoprene, Viton (will shrink some compounds and will dissolve some silicone rubber)
Silicone Grease DC55 (MIL-G- 4343)	-65 to +400°F -54 to +204°C	Vacuum, EXTREME TEMPERATURE Lub.	Nitrile, Butyl, Ethylene, Propylene, Viton, Neoprene
Apiezon N Made in England	+60 to +85°F +15 to +30°C	Vacuum 1 x 10 ⁻⁸	Nitrile, Butyl, Ethylene Propylene, Viton, Neoprene
Skydrol Base Grease Allube	-65 to +200°F -64 to +93°C	Assembly phosphate ester systems	Butyl, Ethylene, Propylene

See section 'R' for Compound Selection Guide

▲ Will not pass through micronic filters.

* May be used in systems having micronic filters.

ASSORTMENT
ASSORTIMENT 805-625

METRIC O-RING SEALS

Made of Nitrile

36 Sizes
439 Pieces



Furnished in Large Size, Grey enameled STEEL Drawer, with scooped bins. Drawer will fit into the Slide Racks, shown on page A3.

Shipping Weight:
3.97 kg (8.75 lbs.)



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PLASTIKIT
«PLASTIKIT» 804-071

GERMAN METRIC SIZES O-RING SEALS

Nitrile

28 Sizes
128 Pieces



Clear durable plastic container with hinged lid.
Size: 4-1/2" x 2-3/4" x 1"

Shipping Weight:
.252 kg (1/4 lb.)



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CATALOG 14

SPAENAUR

O-RING

NITRILE (BUNA-N)
Metric CORD STOCK

German Metric Sizes

SPAENAUR No.	Dia. mm	PKG QTY.
825-181	2.	100'
825-182	2.5	100'
825-183	3.	100'
825-184	3.5	100'
825-185	4.	100'
825-186	5.	50'

70 Durometer

Intended Service:
General Purpose
Mineral Oil
Petroleum Oil
Air and Water
Operating Temperature:
-40°C to +121°C

Swedish Metric Sizes

SPAENAUR No.	Dia. mm	PKG QTY.
825-187	1.6	100'
825-188	2.4	100'
825-183	3.0	100'
825-190	5.7	50'
825-191	8.4	50'

Service range:
same as for
German Metric
sizes, listed
above.

METRIC O-RING SPLICING CORD

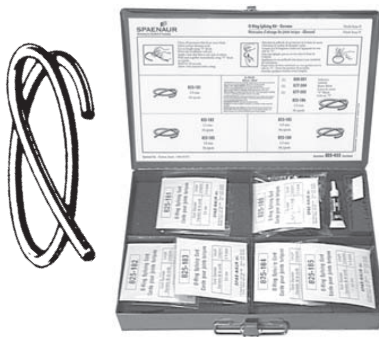
Solve that problem of **LARGE Metric O-Ring availability**. Now YOU can make any standard size in **German or Swedish** cross-section.

ASSORTMENT
ASSORTIMENT **805-455**

**German
Metric O-Rings
Cord Stock Refill**

6 SIZES, 9 PIECES

Shipping Weight: **1.8 kg** (4 lbs.)



ASSORTMENT
ASSORTIMENT **805-456**

**Swedish
Metric O-Rings
Cord Stock Refill**

5 SIZES, 8 PIECES

Shipping Weight: **1.9 kg** (4-1/4 lbs.)

Name	Spaenaur No.	Outer Diameter	Hardness	Qty.	Page
O-Ring NITRILE (Buna-N) Metric Cord Stock	825-181	2.0mm	Duro 70	5'	J91
	825-182	2.5mm			
	825-184	3.5mm			
	825-185	4.0mm			
	825-186	5.0mm			
O-Ring-Swedish Metric Sizes	825-183	3.0mm			
Name	Spaenaur No.	Blade Length	Blade Width	Qty.	Page
Razor Blade	877-504	1-1/2"	3/4"	1	J84
Cutting & Splicing Jig	877-505	4"	3/16"		
Name	Spaenaur No.	Weight		Qty.	
Turbo Fuse Super Glue	800-B78-1W	2g		2	

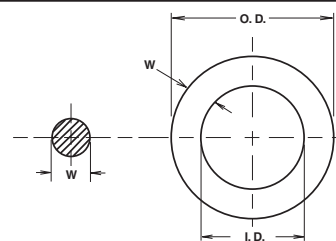
Name	Spaenaur No.	Outer Diameter		Qty.	Page
O-Ring-Swedish Metric Sizes	825-187	1.6mm		5'	J91
	825-188	2.4mm			
	825-183	3.0mm			
	825-190	5.7mm			
	825-191	8.4mm			
Name	Spaenaur No.	Blade Length	Blade Width	Qty.	Page
Razor Blade	877-504	1-1/2"	3/4"	1	J84
Cutting & Splicing Jig	877-505	4"	3/16"		
Name	Spaenaur No.	Weight		Qty.	
Turbo Fuse Super Glue	800-B78-1W	2g		2	

Kit comes in Grey enameled STEEL Drawer. Drawer will fit into the Slide Racks, as shown on page A2.
Size: 13-3/8" x 9-1/4" x 2" Buy your refills by the foot.

For O-Rings in INCH sizes,
see pages J84-J89.

P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com

J91



Metric O-Ring Seals of NITRILE (BUNA N)

All rings listed on this page are furnished in 70 Shore A Durometer, NITRILE (Buna N). They are recommended for general purpose sealing, and particularly for use with petroleum oils and fluids, water, silicone greases and oils, di-ester base lubricants and ethylene glycol base fluids. Temperature Range **-40°C to +135°C**. O-Rings are also widely used for power transmission from small motors. All measurements are in **millimetres**, and subject to commercial tolerances.

"W" dimension 1.5 mm				"W" dimension 2.5 mm				"W" dimension 3.5 mm			
SPAENAUR No.	I.D.	O.D.	PKG QTY.	SPAENAUR No.	I.D.	O.D.	PKG QTY.	SPAENAUR No.	I.D.	O.D.	PKG QTY.
206-004	4 mm	7 mm	100	206-123	7 mm	12 mm	100	206-569	19 mm	26 mm	50
206-005	5 mm	8 mm	100	206-A02-1K	8 mm	13 mm	100	206-570	20 mm	27 mm	50
206-006	6 mm	9 mm	100	206-109	9 mm	14 mm	100	206-571	21 mm	28 mm	50
206-A01-1T	7 mm	10 mm	100	206-110	10 mm	15 mm	100	206-572	22 mm	29 mm	50
206-008	8 mm	11 mm	100	206-111	11 mm	16 mm	100	206-573	23 mm	30 mm	50
206-009	9 mm	12 mm	100	206-112	12 mm	17 mm	100	206-575	25 mm	32 mm	50
206-010	10 mm	13 mm	100	206-113	13 mm	18 mm	100	206-577	27 mm	34 mm	50
206-011	11 mm	14 mm	100	206-114	14 mm	19 mm	100	206-578	28 mm	35 mm	50
206-012	12 mm	15 mm	100	206-115	15 mm	20 mm	100	206-579	29 mm	36 mm	50
206-013	13 mm	16 mm	100	206-116	16 mm	21 mm	50	206-580	30 mm	37 mm	50
206-014	14 mm	17 mm	100	206-117	17 mm	22 mm	50	206-581	31 mm	38 mm	25
206-015	15 mm	18 mm	100	206-118	18 mm	23 mm	50	206-583	33 mm	40 mm	25
206-016	16 mm	19 mm	100	206-119	19 mm	24 mm	50	206-584	34 mm	41 mm	25
				206-120	20 mm	25 mm	50	206-586	36 mm	43 mm	25
				206-122	29 mm	34 mm	50	206-587	37 mm	44 mm	25
								206-588	38 mm	45 mm	25
"W" dimension 2 mm				"W" dimension 3 mm				"W" dimension 4 mm			
204-003	3 mm	7 mm	100	206-324	10 mm	16 mm	100	204-120	20 mm	28 mm	50
204-004	4 mm	8 mm	100	206-320	17 mm	23 mm	50	204-122	22 mm	30 mm	50
204-A01-1W	5 mm	9 mm	100	206-321	20 mm	26 mm	50	204-124	24 mm	32 mm	50
204-006	6 mm	10 mm	100	206-323	23 mm	29 mm	50	204-125	25 mm	33 mm	50
204-007	7 mm	11 mm	100	206-325	25 mm	31 mm	50	204-128	28 mm	36 mm	25
204-008	8 mm	12 mm	100	206-327	27 mm	33 mm	50	204-130	30 mm	38 mm	25
204-009	9 mm	13 mm	100	206-329	29 mm	35 mm	50				
204-010	10 mm	14 mm	100	206-330	30 mm	36 mm	50				
204-011	11 mm	15 mm	100	206-332	32 mm	38 mm	25				
204-012	12 mm	16 mm	100	206-333	33 mm	39 mm	25				
204-013	13 mm	17 mm	100	206-337	37 mm	43 mm	25				
204-014	14 mm	18 mm	100	206-339	39 mm	45 mm	25				
204-015	15 mm	19 mm	100	206-341	41 mm	47 mm	25				
204-016	16 mm	20 mm	50	206-348	42 mm	48 mm	25				
204-017	17 mm	21 mm	50	206-343	43 mm	49 mm	25				
204-018	18 mm	22 mm	50	206-345	45 mm	51 mm	25				
204-019	19 mm	23 mm	50	206-347	47 mm	53 mm	25				
204-020	20 mm	24 mm	50								
*204-021	32 mm	36 mm	50								

German Metric popular SIZES have been listed above. These are regularly stocked.

Larger or smaller and intermediate sizes are also available. Special materials such as Silicone Rubber, Neoprene Viton, etc., can usually be furnished, subject to special order delay. British BS 4518, Swedish and French Metric range also available.

If you need a special O-Ring for a special purpose, we will do our utmost to supply exactly what you need.

NOTE: Always lubricate the O-Ring and all metal parts which come in contact with it. Generally, the liquid being sealed will provide adequate lubrication. See "O-Ring Lubricants" — Page J90.

See also O-Ring Splicing Cord and Kits - on Pages J84 and J91.
For Inch sizes, see Pages J84-J89.



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