Zertifiziertes QM-System
DIN EN ISO 9001
Zertifikat-Nr. 01017

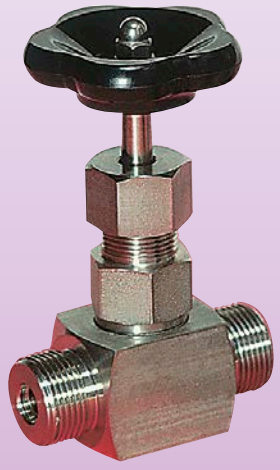
Valves

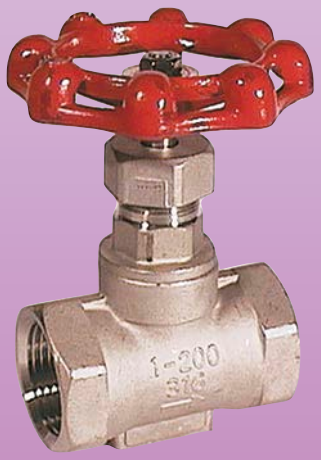
from brass and stainless steel

KOBOLD

measuring • monitoring • analysing

NAD





- p_{max}: PN 250; t_{max}: 400 °C
- Screw thread: G ⅛ ... G 3
  ⅛" NPT ... 1" NPT
- Weld ends:
  DN 15 ... DN 50
- Needle valves
- Angle-seat valves
- Globe valves

Z1

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Description

Stainless steel needle valves are used to vary the flow cross section, thus regulating the flow volume. The flow is regulated by a cone-shaped valve that is moved by means of a spindle away from or toward the valve seat. The amount of flow change is determined by the size of the resulting angular gap between the cone and seat. The rate of flow change is determined by how much the valve spindle is turned as well as the pitch of the valve spindle thread.

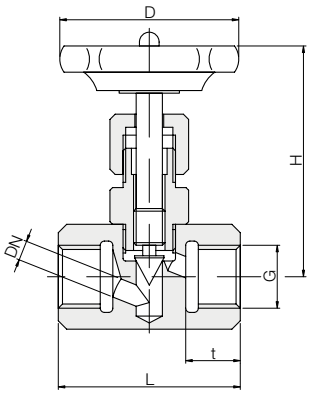
Materials

Body:	stainless steel 1.4571
Upper part:	stainless steel 1.4571
Spindle:	stainless steel1.4571
Gland packing:	PTFE
Gland:	stainless steel 1.4571
Union nut:	stainless steel 1.4301
Hand wheel:	molded resin

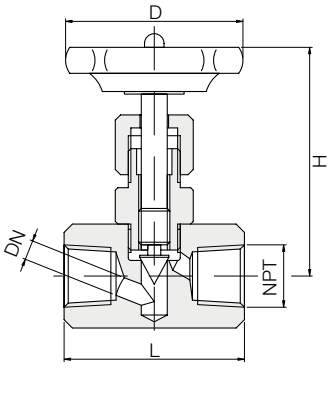
Technical Details

Design:	two-part screwed body, with screwed-on upper part
Connections:	G ⅛ ... G 1¼ (DIN ISO 228/1) female thread, male thread, female and male thread ⅛" NPT ... 1" NPT female thread
Temperature range:	-20 °C ... +120 °C
Nominal pressure:	PN 250
Operation:	rotation of hand wheel

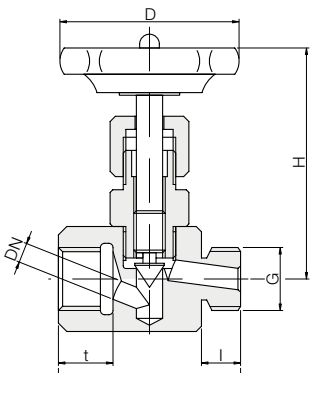
Female thread G



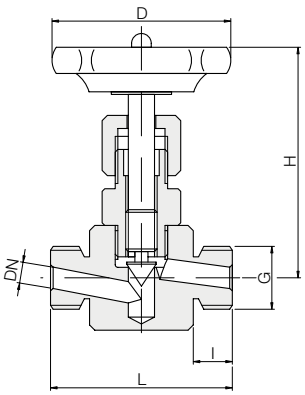
Female thread NPT



Female/male thread



Male thread



Dimensions and Order Details (example: **NAD-MZR 06**)

Screw thread		Order no. G thread			Order no. NPT thread	DN	L[1)]	L[2)]	t	l	H	D	k_v value	Weight
[G]	[NPT]	Female/male thread	Female thread	Male thread	Female thread	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[m³/h]	[kg]
⅛	⅛-27	NAD-MZR 06	NAD-MMR 06	NAD-ZZR 06	NAD-MMN 06	4	45	50	10	9	74	50	0.27	0.30
¼	¼-18	NAD-MZR 08	NAD-MMR 08	NAD-ZZR 08	NAD-MMN 08	5	50	55	13	11	73	50	0.48	0.32
⅜	⅜-18	NAD-MZR 10	NAD-MMR 10	NAD-ZZR 10	NAD-MMN 10	6	55	60	14	11	72	50	0.54	0.32
½	½-14	NAD-MZR 15	NAD-MMR 15	NAD-ZZR 15	NAD-MMN 15	8	60	70	16	13	83	63	0.75	0.46
¾	¾-14	NAD-MZR 20	NAD-MMR 20	NAD-ZZR 20	NAD-MMN 20	10	75	80	18	16	100	63	1.2	0.76
1	1-11.5	NAD-MZR 25	NAD-MMR 25	NAD-ZZR 25	NAD-MMN 25	12	100	110	22	18	110	80	2.7	1.58
1¼	-	NAD-MZR 32	NAD-MMR 32	NAD-ZZR 32	-	15	120	-	24	20	135	100	3.6	2.82

[1)] = G thread [2)] = NPT thread

No responsibility taken for errors; subject to change without prior notice.

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Model NAD- ... T (High temperature version)

Description

High temperature stainless steel needle valves are used to vary the flow cross section, thus regulating the flow volume. The flow is regulated by a cone-shaped valve that is moved away from or toward the valve seat by means of a spindle with an external spindle thread. The amount of flow change is determined by the size of the resulting angular gap between the cone and seat. The rate of flow change is determined by how much the valve spindle is turned as well as the pitch of the valve spindle thread.

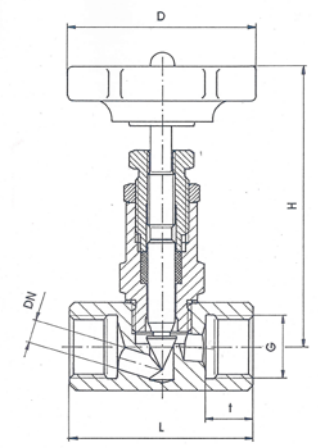
Materials

Body:	stainless steel 1.4571
Upper part:	stainless steel 1.4571
Spindle:	stainless steel 1.4571
Cone:	stainless steel 1.4571 carbonitrided
Gland packing:	graphite
Gland:	stainless steel 1.43051
Union nut:	stainless steel 1.4301
Hand wheel:	molded resin

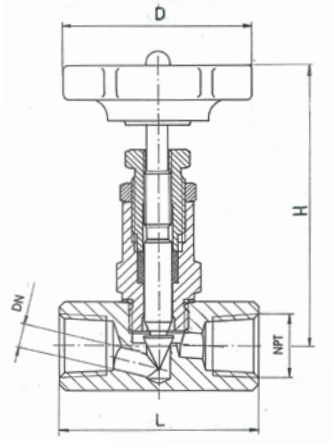
Technical Details

Design:	two-part screwed body, with screwed-on upper part
Connections:	G ⅛ ... G 1¼ (DIN ISO 228/1) female thread, male thread, female and male thread ⅛" NPT ... 1" NPT female thread
Temperature range:	-20 °C ... +400 °C
Nominal pressure:	PN 100
Operation:	rotation of hand wheel

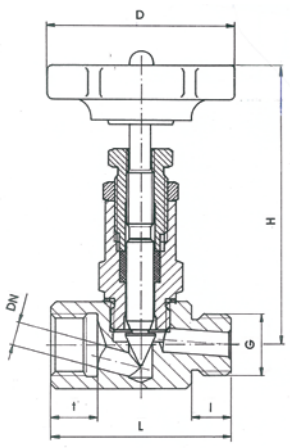
Female thread G



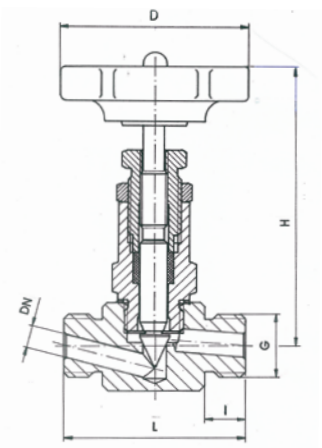
Female thread NPT



Female/male thread



Male thread



Dimensions and Order Details (example: **NAD-MZR 06T**)

Screw thread [G]	Screw thread [NPT]	Order no. G thread: Female/male thread	Order no. G thread: Female thread	Order no. G thread: Male thread	Order no. NPT thread: Female thread	DN [mm]	L[1] [mm]	L[2] [mm]	t [mm]	l [mm]	H[3] [mm]	D [mm]	k_v value [m³/h]	Weight[3] [kg]
⅛	⅛-27	NAD-MZR 06T	NAD-MMR 06T	NAD-ZZR 06T	NAD-MMN 06T	4	45	50	10	9	85	50	0.27	0.32
¼	¼-18	NAD-MZR 08T	NAD-MMR 08T	NAD-ZZR 08T	NAD-MMN 08T	5	50	55	13	11	84	50	0.48	0.33
⅜	⅜-18	NAD-MZR 10T	NAD-MMR 10T	NAD-ZZR 10T	NAD-MMN 10T	6	55	60	14	11	83	50	0.54	0.34
½	½-14	NAD-MZR 15T	NAD-MMR 15T	NAD-ZZR 15T	NAD-MMN 15T	8	60	70	16	13	86	63	0.75	0.47
¾	¾-14	NAD-MZR 20T	NAD-MMR 20T	NAD-ZZR 20T	NAD-MMN 20T	10	75	80	18	16	95	63	1.2	0.69
1	1-11.5	NAD-MZR 25T	NAD-MMR 25T	NAD-ZZR 25T	NAD-MMN 25T	12	100	110	22	18	125	80	2.7	1.70
1¼	-	NAD-MZR 32T	NAD-MMR 32T	NAD-ZZR 32T	-	14	120	-	24	20	150	100	3.6	2.90

[1] = G thread [2] = NPT thread [3] = valid for NAD-MMR ... T

No responsibility taken for errors;
subject to change without prior notice.

Description

KOBOLD NAD-AC brass-needle valves allow economical regulation of the flow volume of liquids and gases.

The amount of flow change is determined by the size of the resulting angular gap between the cone and seat. The flow is regulated by a cone-shaped valve that is moved by means of a spindle away from or toward the valve seat. The rate of flow change is determined by how much the valve spindle is turned as well as the pitch of the valve spindle thread.

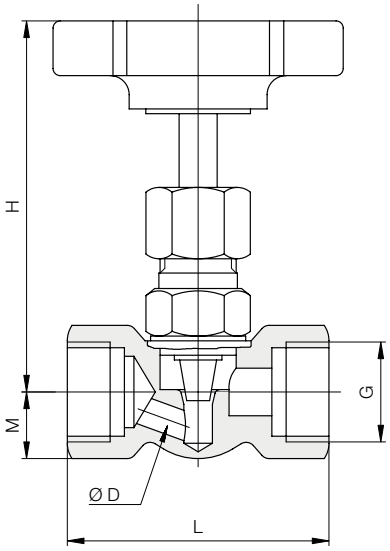
Materials

Body:	CuZn 39Pb3F37
Bonnet:	brass (Ms 58)
Spindle:	brass (Ms 58)
Packing bottom-ring:	brass (Ms 58)
Spindle seal:	G⅛ ... G½ = NBR G¾ ... G2 = PTFE
Gland nut:	brass (Ms 58)
Hand wheel:	plastic

Technical Details

Design:	two-part screwed body, with screwed-on upper part
Connections:	female thread G⅛ ... G2 (acc. to DIN 259)
Temperature range:	max. +100 °C
Nominal pressure:	PN 100 / PN 40 (from G 1¼)
Operation:	rotation of hand wheel

NAD-AC



Dimensions and Order Details (example: **NAD-ACR 06**)

Screw thread [G]	Order no.	D [mm]	L [mm]	H [mm]	M [mm]	k_V value [m³/h]
⅛	**NAD-ACR 06**	4.0	50	70	12.5	0.24
¼	**NAD-ACR 08**	5.0	50	78	12.5	0.48
⅜	**NAD-ACR 10**	6.0	50	78	12.5	0.60
½	**NAD-ACR 15**	6.5	55	78	14.0	0.66
¾	**NAD-ACR 20**	9.0	67	90	18.0	1.08
1	**NAD-ACR 25**	11.0	75	95	22.5	1.62
1¼	**NAD-ACR 32**	13.0	110	105	30.0	3.0
1½	**NAD-ACR 40**	15.0	110	110	32.5	3.6
2	**NAD-ACR 50**	15.0	110	110	32.5	3.6

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Design

Two-part screwed body

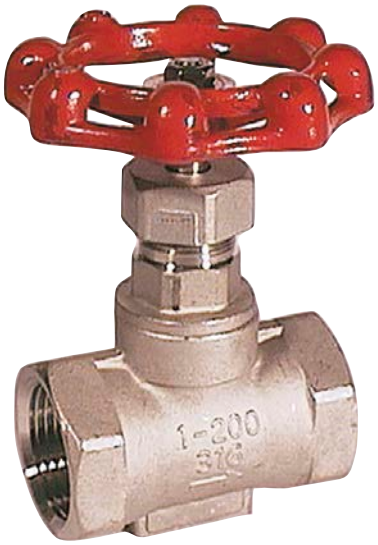
Material

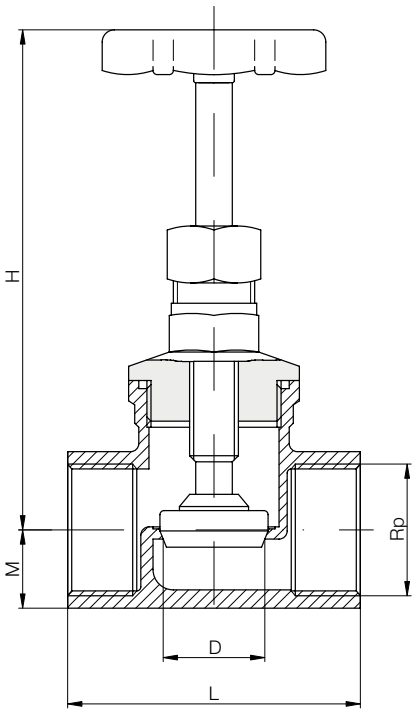
Body:	stainless steel 1.4408
Cover:	stainless steel 1.4408
Metallic inner parts:	stainless steel 1.4401
Seal:	PTFE

Technical Details

Connection:	B.S.P. thread ¼" - 3" (DIN 2999)
Temperature range:	-25 °C up to max. +180 °C
Pressure range:	Almost vacuum - nominal pressure PN 16
Operation:	rotation of hand wheel

NAD-AB





Dimensions and Order Details (example: **NAD-ABR 08**)

Connection size	Order no.	D [mm]	M [mm]	H [mm]	L [mm]	Weight [kg]
G ¼	**NAD-ABR 08***	8	13	93	52	0.40
G ⅜	**NAD-ABR 10***	10	13	73	52	0.25
G ½	**NAD-ABR 15***	15	15	73	52	0.25
G ¾	**NAD-ABR 20***	20	19	85	60	0.45
G 1	**NAD-ABR 25**	25	23	92	72	0.60
G 1 ¼	**NAD-ABR 32**	32	29	110	81	0.95
G 1 ½	**NAD-ABR 40**	40	31	125	91	1.25
G 2	**NAD-ABR 50**	50	37	140	100	1.75

* Minimum order quantity: 2 pieces per PO, mixed sizes possible

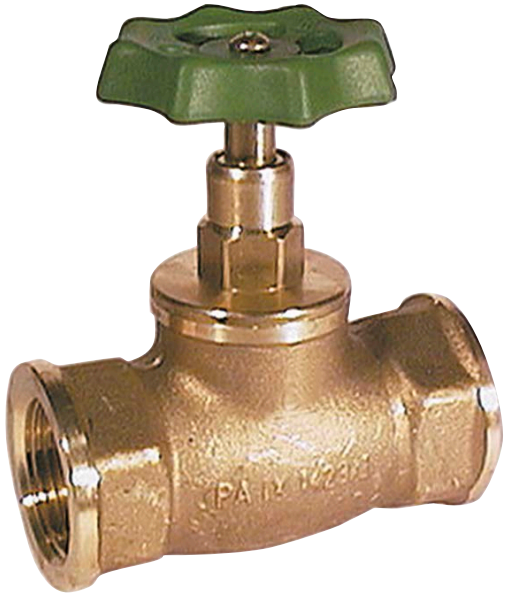
No responsibility taken for errors;
subject to change without prior notice.

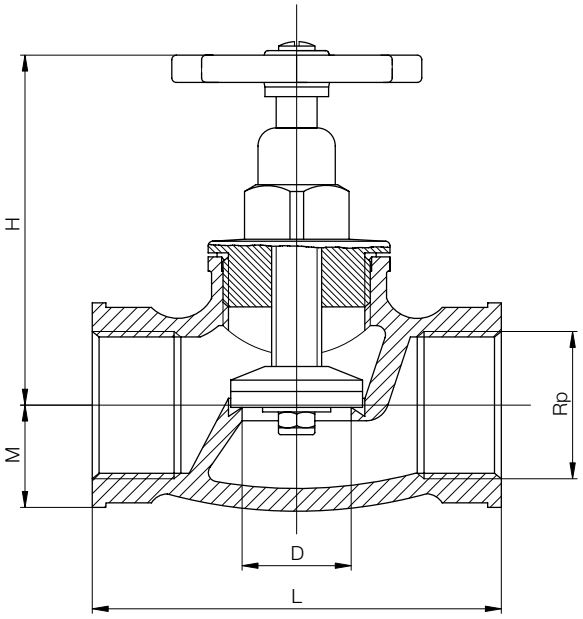
Design
Two-part screwed body

Materials
Body:	brass
Cover:	brass
Metallic internal parts:	brass
Packing bottom-ring:	NBR
Gasket:	EPDM

Technical Details
Connections:	female thread Rp ¼ ... Rp 3 (acc. to DIN 2999)
Temperature range:	-10 °C ... +90 °C
Nominal pressure:	PN 10
Operation:	rotation of hand wheel

NAD-BF





Dimensions and Order Details (example: **NAD-BFR 08**))

Screw thread [Rp]	Order no.	D [mm]	M [mm]	H [mm]	L [mm]	Weight [kg]
⅜	**NAD-BFR 10****	10	12.5	68	65	0.20
½	**NAD-BFR 15****	15	15.0	63	65	0.27
¾	**NAD-BFR 20****	20	18.5	82	75	0.43
1	**NAD-BFR 25****	25	20.5	88	90	0.70
1¼	**NAD-BFR 32****	32	26.5	98	110	1.10
1½	**NAD-BFR 40***	40	30.0	124	120	1.40
2	**NAD-BFR 50***	50	37.5	138	150	2.50
2½	**NAD-BFR 65**	65	47.5	173	190	4.70
3	**NAD-BFR 80**	80	53.0	270	205	6.50

* Minimum order quantity: 2 pieces per PO, mixed sizes possible
** Minimum order quantity: 5 pieces per PO, mixed sizes possible

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Design

Two-part screwed body

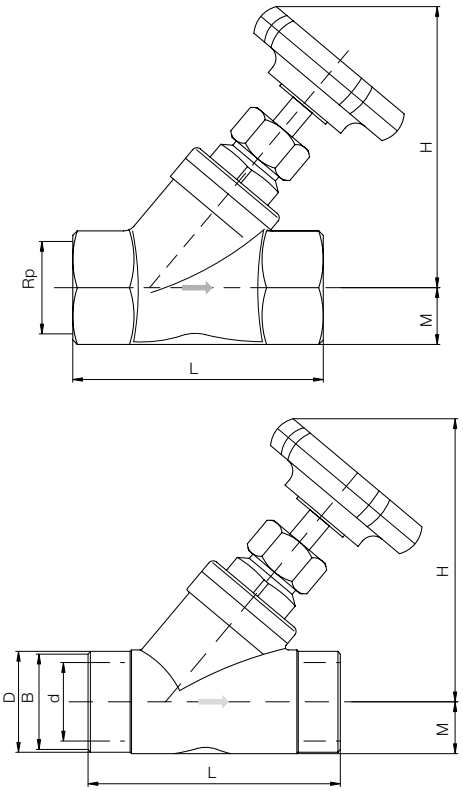
Materials

Body:	stainless steel 1.4408
Cover:	stainless steel 1.4408
Metallic internal parts:	stainless steel 1.4404
Gasket:	PTFE
Mounting position:	any, note specified direction of flow

Technical Details

Connections:	female thread Rp ¼ ... Rp 2 (acc. to DIN 2999) weld ends DN 15 ... DN 50 (acc. to DIN 3239)
Temperature range:	-20 °C ... +180 °C
Nominal pressure:	PN 16
Operation:	rotation of hand wheel

NAD-AD



Dimensions and Order Details (example: **NAD-ADR 15**))

Screw thread [Rp]	Weld ends [DN]	Order no. female thread	Order no. weld ends	L [mm]	H [mm]	M [mm]	DIN 3239 Ø B [mm]	DIN 3239 Ø D [mm]	DIN 3239 Ø d [mm]
½	15	**NAD-ADR 15***	**NAD-ADW 15***	65.5	97.0	13.5	22	27	19
¾	20	**NAD-ADR 20**	**NAD-ADW 20**	75.5	110.0	16.0	28	33	24
1	25	**NAD-ADR 25**	**NAD-ADW 25**	90.5	117.0	20.5	34	41	31
1¼	32	**NAD-ADR 32**	**NAD-ADW 32**	111.0	138.0	25.0	43	50	39
1½	40	**NAD-ADR 40**	**NAD-ADW 40**	121.0	150.0	27.8	49	56	45
2	50	**NAD-ADR 50**	**NAD-ADW 50**	115.0	168.0	35.0	61	70	57

* Minimum order quantity: 2 pieces per PO, mixed sizes possible

No responsibility taken for errors;
subject to change without prior notice.

Design

Two-part screwed body

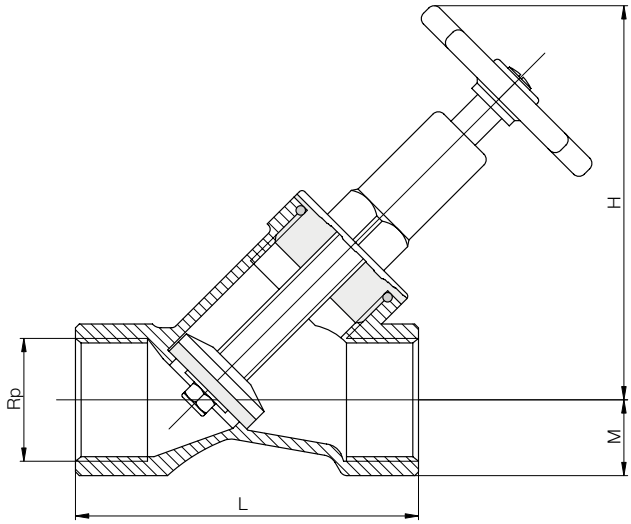
Materials

Body:	brass
Cover:	brass
Metallic internal parts:	brass
O-rings:	NBR
Seat gasket:	EPDM

Technical Details

Connections:	female thread Rp ⅜ ... Rp 3 (acc. to DIN 2999)
Temperature range:	-10 °C ... +90 °C
Nominal pressure:	PN 16
Operation:	rotation of hand wheel

NAD-BE



Dimensions and Order Details (example: **NAD-BER 10**)

Screw thread [Rp]	Order no.	M [mm]	H [mm]	L [mm]	Weight [kg]
⅜	**NAD-BER 10***	14.0	78	65	0.20
½	**NAD-BER 15***	14.0	78	65	0.25
¾	**NAD-BER 20***	16.0	84	75	0.35
1	**NAD-BER 25***	20.0	108	90	0.65
1¼	**NAD-BER 32***	27.0	135	110	1.15
1½	**NAD-BER 40***	30.0	148	120	1.30
2	**NAD-BER 50**	38.0	177	150	2.50
2½	**NAD-BER 65**	42.5	195	180	3.60
3	**NAD-BER 80**	50.0	240	210	6.10

* Minimum order quantity: 5 pieces per PO, mixed sizes possible

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