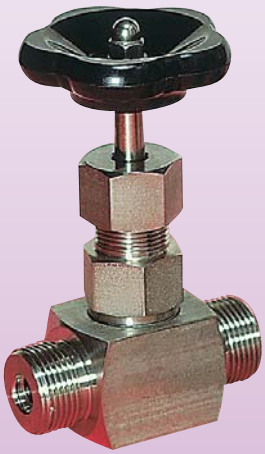
Valves

from Brass and Stainless Steel



- $p_{max.}$ PN 250
- $t_{max.}$ +180 °C
- Screw thread:
  G ⅛ to G 3
  ⅛ NPT to 1 NPT
- Weld ends:
  DN 15 to DN 50
- Needle valves
- Angle-seat valves
- Globe valves

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KOBOLD Messring GmbH
Nordring 22-24
D-65719 Hofheim/Ts.
☎ +49(0)6192 299-0
Fax +49(0)6192 23398
E-Mail: info.de@kobold.com
Internet: www.kobold.com

Models:
NAD-
MM, MZ, ZZ, AC, AB, BF, AD, BE

1 / 08-2006

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.

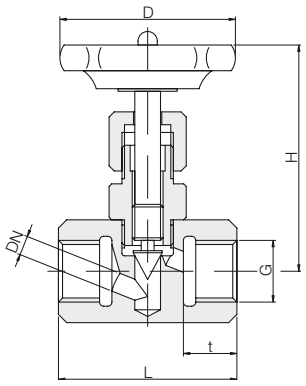
Materials

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

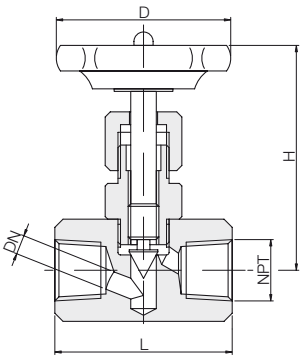
Technical Details

Design:	two-part screwed body, with screwed-on upper part
Connections:	G ⅛ to G 1 ¼ (DIN ISO 228/1) female thread, male thread, female and male thread
	⅛ NPT to 1 NPT female thread
Temperature range:	-20 °C to +120 °C
Nominal pressure:	PN 250
Operation:	rotation of hand wheel

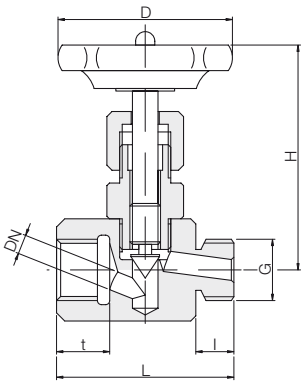
Female thread G



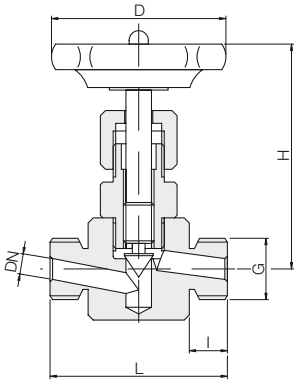
Female thread NPT



Female/male thread



Male thread



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

Screw thread [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]	L¹ [mm]	L² [mm]	t [mm]	l [mm]	H [mm]	D [mm]	k_v value [m³/h]	Weight [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	65	65	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	105	22	18	110	80	2.7	1.58
1 ¼	-	**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

1 / 08-2006

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.

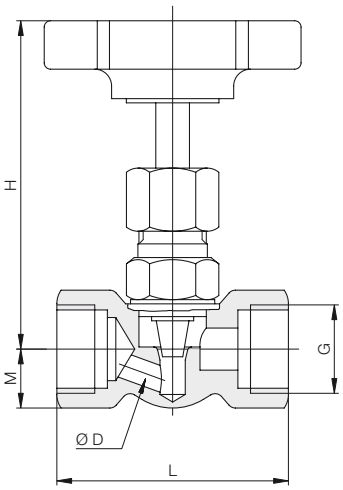
Materials

Body:	CuZn 39Pb3F37
Bonnet:	brass (Ms 58)
Spindle:	brass (Ms 58)
Packing bottom-ring:	brass (Ms 58)
Spindle seal:	G ⅛ to G ½ = NBR G ¾ to G 2 = PTFE
Gland nut:	brass (Ms 58)
Hand wheel:	plastic

Technical Details

Design:	two-part screwed body, with screwed-on upper part
Connections:	female thread G ⅛ to G 2 (as per DIN 259)
Temperature range:	max. +100 °C
Nominal pressure:	PN 100 / PN 40 (from G 1 ¼)
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
1 ¼	**NAD-ACR 32**	13.0	110	105	30.0	3.0
1 ½	**NAD-ACR 40**	15.0	110	110	32.5	3.6
2	**NAD-ACR 50**	15.0	110	110	32.5	3.6

Design

Two-part screwed body

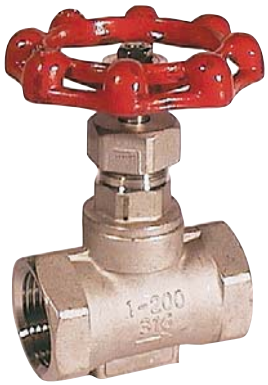
Materials

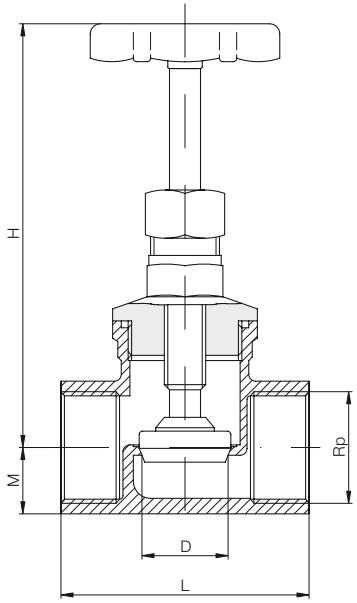
Body:	stainless steel 1.4408
Cover:	stainless steel 1.4408
Metallic internal parts:	stainless steel 1.4401
Packing bottom-ring:	brass (Ms 58)
Gasket:	metal/metal

Technical Details

Connections:	female thread Rp ¼ to Rp 2 (as per DIN 2999)
Temperature range:	-30 °C to +130 °C
Nominal pressure:	PN 16
Operation:	rotation of hand wheel

NAD-AB





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

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

Design

Two-part screwed body

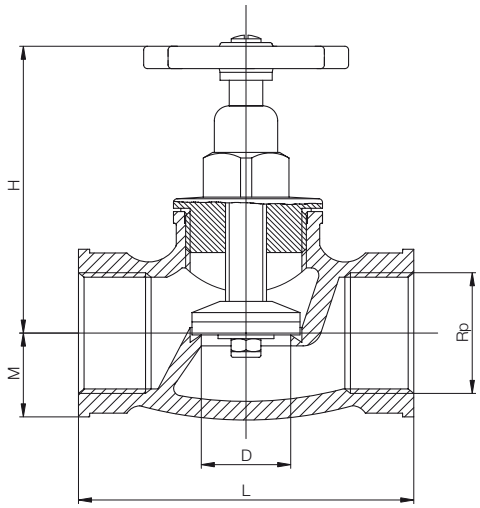
Materials

Body:	brass
Cover:	brass
Metallic internal parts:	brass
Packing bottom-ring:	brass (Ms 58)
Gasket:	NBR

Technical Details

Connections:	female thread Rp ¼ to Rp 3 (as per DIN 2999)
Temperature range:	-10 °C to +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]
¼	**NAD-BFR 08**	8	10.5	45	50	0.14
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
1 ¼	**NAD-BFR 32**	32	26.5	98	110	1.10
1 ½	**NAD-BFR 40**	40	30.0	124	120	1.40
2	**NAD-BFR 50**	50	37.5	138	150	2.50
2 ½	**NAD-BFR 65**	65	47.5	173	190	4.70
3	**NAD-BFR 80**	80	53.0	270	205	6.50

Design

Two-part screwed body

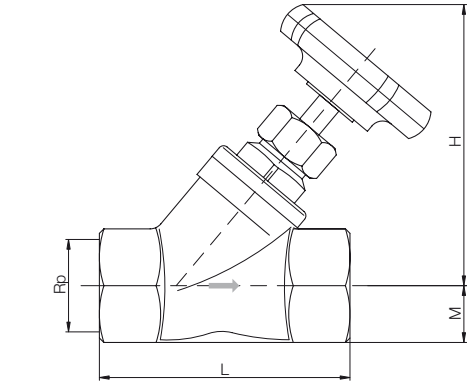
Materials

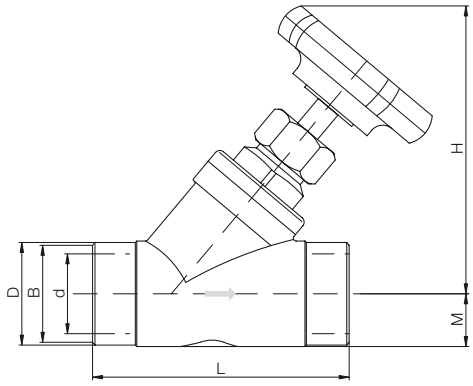
Body:	stainless steel 1.4408
Cover:	stainless steel 1.4408
Metallic internal parts:	stainless steel 1.4404
Gasket:	PTFE
Mounting position:	any, note specified direction of flow

Technical Details

Connections:	female thread Rp ½ to Rp 2 (as per DIN 2999) weld ends DN 15 to DN 50 (as per DIN 3239)
Temperature range:	-20 °C to +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
1 ¼	32	**NAD-ADR 32**	**NAD-ADW 32**	111.0	138.0	25.0	43	50	39
1 ½	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

1 / 08-2006

Design

Two-part screwed body

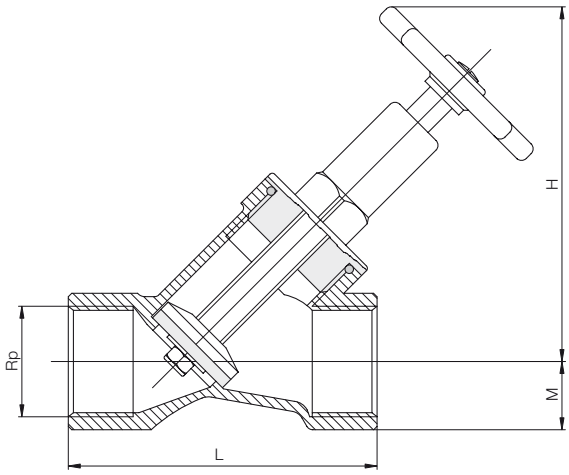
Materials

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

Technical Details

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

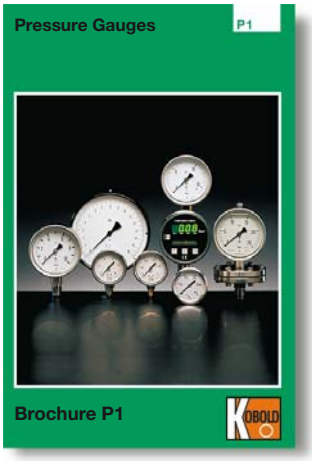
NAD-BE



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
1 ¼	**NAD-BER 32**	27.0	135	110	1.15
1 ½	**NAD-BER 40**	30.0	148	120	1.30
2	**NAD-BER 50**	38.0	177	150	2.50
2 ½	**NAD-BER 65**	42.5	195	180	3.60
3	**NAD-BER 80**	50.0	240	210	6.10

For information on our products for pressure measurement technology, see our brochures »P1, P2 and P3«



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1 / 08-2006