



- pmax. PN 250
- tmax. +180 °C
- Screw thread:
 G 1/8 to G 3
 1/8 NPT to 1 NPT
- Weld ends:
 DN 15 to DN 50
- Needle valves
- Angle-seat valves
- Globe valves



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



Description

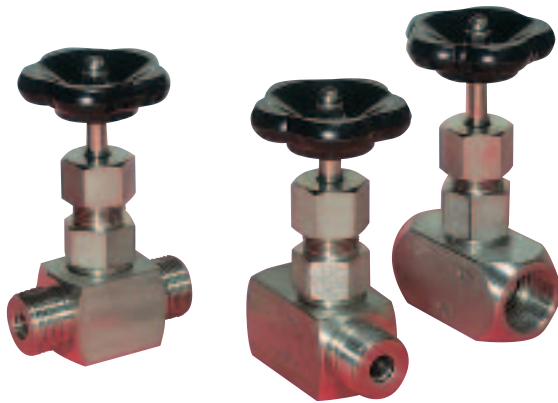
Stainless steel needle valves are used to vary the flow cross section, thus regulating the flow volume. The flow is regulated by a cone-shaped valve that is moved by means of a spindle away from or toward the valve seat. The amount of flow change is determined by the size of the resulting angular gap 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 1/8 to G 1 1/4 (DIN ISO 228/1) female thread, male thread, female and male thread 1/8 NPT to 1 NPT female thread
 Temperature range -20 °C to +120 °C
 Nominal pressure PN 250
 Operation rotation of hand wheel

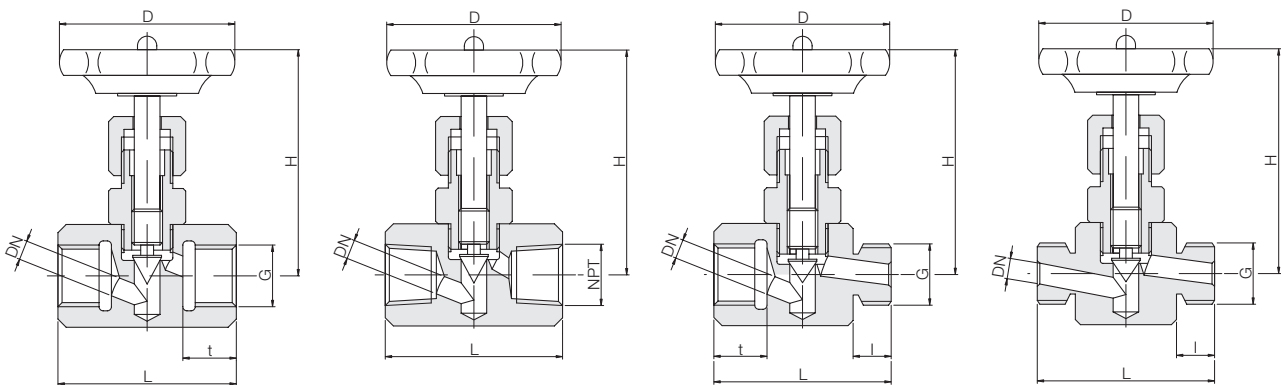


Female thread G

Female thread NPT

Female/male thread

Male thread



Dimensions and ordering details (example: NAD-MZR 06)

Screw thread		Order no. G thread			Order no. NPT thread Female thread	DN mm	L ¹ mm	L ² mm	t mm	l mm	H mm	D mm	k _v -value m ³ /h	Weight kg
G	NPT	Female/male thread	Female thread	Male thread										
1/8	1/8-27 NPT	NAD-MZR 06	NAD-MMR 06	NAD-ZZR 06	NAD-MMN 06	4	45	50	10	9	74	50	0.27	0.30
1/4	1/4-18 NPT	NAD-MZR 08	NAD-MMR 08	NAD-ZZR 08	NAD-MMN 08	5	50	55	13	11	73	50	0.48	0.32
3/8	3/8-18 NPT	NAD-MZR 10	NAD-MMR 10	NAD-ZZR 10	NAD-MMN 10	6	55	60	14	11	72	50	0.54	0.32
1/2	1/2-14 NPT	NAD-MZR 15	NAD-MMR 15	NAD-ZZR 15	NAD-MMN 15	8	65	65	16	13	83	63	0.75	0.46
3/4	3/4-14 NPT	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 NPT	NAD-MZR 25	NAD-MMR 25	NAD-ZZR 25	NAD-MMN 25	12	100	105	22	18	110	80	2.7	1.58
1 1/4	-	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

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.

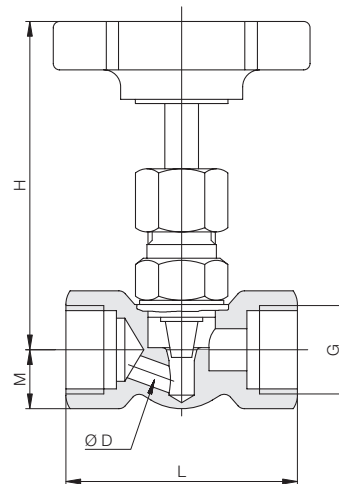
Materials

Body	CuZn 39Pb3F37
Bonnet	brass (Ms 58)
Spindle	brass (Ms 58)
Packing bottom-ring	brass (Ms 58)
Spindle seal	G 1/8 to G 1/2 = NBR G 3/4 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 1/8 to G 2 (as per DIN 259)
Temperature range	max. +100 °C
Nominal pressure	PN 100
Operation	rotation of hand wheel

NAD-AC



Dimensions and ordering details (example: NAD-ACR 06)

Screw thread G	Order no.	D mm	L mm	H mm	M mm	k _v -value m ³ /h
1/8	NAD-ACR 06	4.0	50	70	12.5	0.24
1/4	NAD-ACR 08	5.0	50	78	12.5	0.48
3/8	NAD-ACR 10	6.0	50	78	12.5	0.60
1/2	NAD-ACR 15	6.5	55	78	14.0	0.66
3/4	NAD-ACR 20	9.0	67	90	18.0	1.30
1	NAD-ACR 25	11.0	75	95	22.5	1.13
1 1/4	NAD-ACR 32	13.0	110	105	30.0	2.26
1 1/2	NAD-ACR 40	15.0	110	110	32.5	2.90
2	NAD-ACR 50	15.0	110	110	32.5	2.90

Design

Two-part screwed body

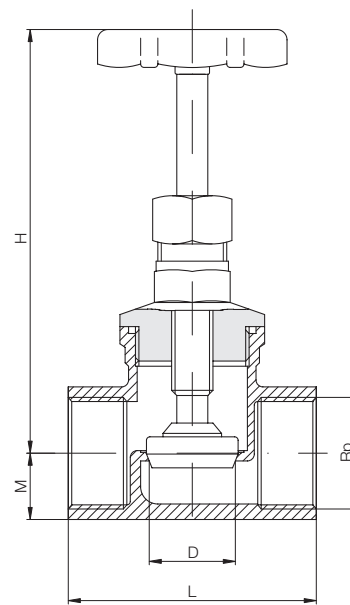
Materials

Body stainless steel 1.4408
 Cover stainless steel 1.4408
 Metallic internal parts stainless steel 1.4401
 Gasket metal/metal

Technical details

Connections female thread Rp 1/4 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 ordering details (example: NAD-ABR 08)

Screw thread Rp	Order no.	D mm	M mm	H mm	L mm	Weight kg
1/4	NAD-ABR 08	8	13	93	52	0.40
3/8	NAD-ABR 10	10	13	73	52	0.25
1/2	NAD-ABR 15	15	15	73	52	0.25
3/4	NAD-ABR 20	20	19	85	60	0.45
1	NAD-ABR 25	25	23	92	72	0.60
1 1/4	NAD-ABR 32	32	29	110	81	0.95
1 1/2	NAD-ABR 40	40	31	125	91	1.25
2	NAD-ABR 50	50	37	140	100	1.75

Design

Two-part screwed body

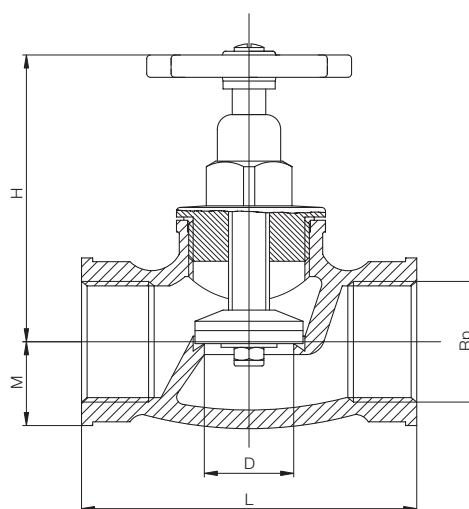
Materials

Body	brass
Cover	brass
Metallic internal parts	brass
Gasket	NBR

Technical details

Connections	female thread Rp 1/4 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 ordering details (example: NAD-BFR 08)

Screw thread Rp	Order no.	D mm	M mm	H mm	L mm	Weight kg
1/4	NAD-BFR 08	8	10.5	45	50	0.14
3/8	NAD-BFR 10	10	12.5	68	65	0.20
1/2	NAD-BFR 15	15	15.0	63	65	0.27
3/4	NAD-BFR 20	20	18.5	82	75	0.43
1	NAD-BFR 25	25	20.5	88	90	0.70
1 1/4	NAD-BFR 32	32	26.5	98	110	1.10
1 1/2	NAD-BFR 40	40	30.0	124	120	1.40
2	NAD-BFR 50	50	37.5	138	150	2.50
2 1/2	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

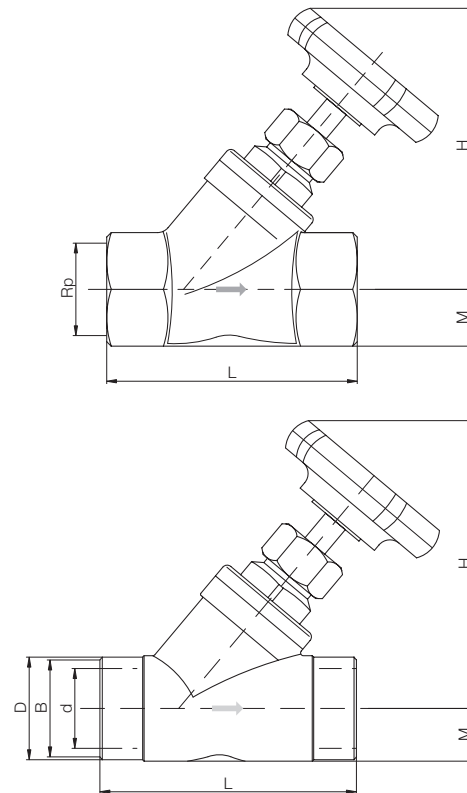
Materials

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 1/2 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 ordering 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
1/2	15	NAD-ADR 15	NAD-ADW 15	65.5	97.0	13.5	22	27	19
3/4	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 1/4	32	NAD-ADR 32	NAD-ADW 32	111.0	138.0	25.0	43	50	39
1 1/2	40	NAD-ADR 40	NAD-ADW 40	121.0	150.0	27.8	49	56	45
2	50	NAD-ADR 50	NAD-ADW 50	150.0	168.0	35.0	61	70	57

Design

Two-part screwed body

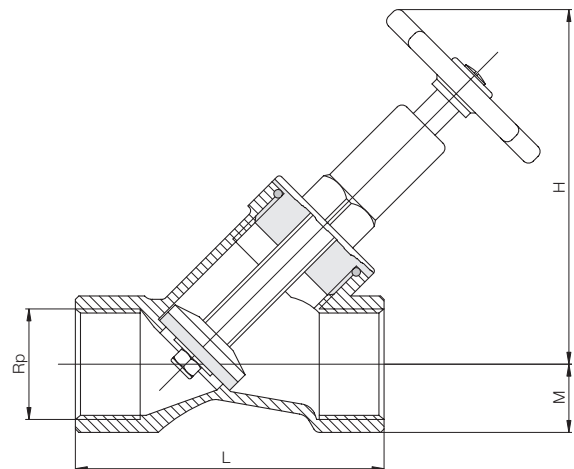
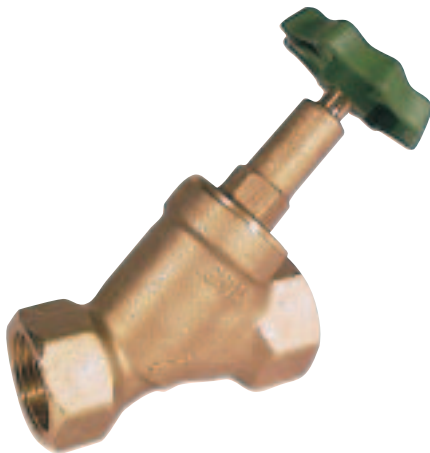
Materials

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

Technical details

Connections	female thread Rp 3/8 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 ordering details (example: NAD-BER 10)

Screw thread Rp	Order no.	M mm	H mm	L mm	Weight kg
3/8	NAD-BER 10	14.0	78	65	0.20
1/2	NAD-BER 15	14.0	78	65	0.25
3/4	NAD-BER 20	16.0	84	75	0.35
1	NAD-BER 25	20.0	108	90	0.65
1 1/4	NAD-BER 32	27.0	135	110	1.15
1 1/2	NAD-BER 40	30.0	148	120	1.30
2	NAD-BER 50	38.0	177	150	2.50
2 1/2	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«



For information on our products for level measurement technology, see our brochures »N1 and N2«

