METAL SEATED GATE VALVE, DN 1400-1800 54/3132/B
005

Metal seated gate valve, PN16, designed according to EN1074 part 1 & 2, Face to face according to EN 558 table 1 basic series 3.

Use:	For water, sewage and neutral liquids to max. 70°C
Hydraulic tests:	Seat: 1.1 x PN Body: 17 bar (PN 10), 25 bar (PN 16)
Applicable Standards:	To EN 1074 Part 1 & 2 : 2000 Flange drilling to EN 1092-2: PN 10 or PN 16
Options:	Handwheel Electric Actuation Bypass Bevel or Spur Gearboxes Alternative Trim Materials Jacking screw Inspection cover Extension Rods, Couplings & Guide Brackets Floor Pillar Nameplates Rising Stem

Valves must not be operated without a gearbox or actuator. Thrust is taken in the gearbox or actuator.

LNS numbers shown relate to the standard ISO mounting flange. For differential pressures of 10 bar and above, the mounting flange and LNS number may change.

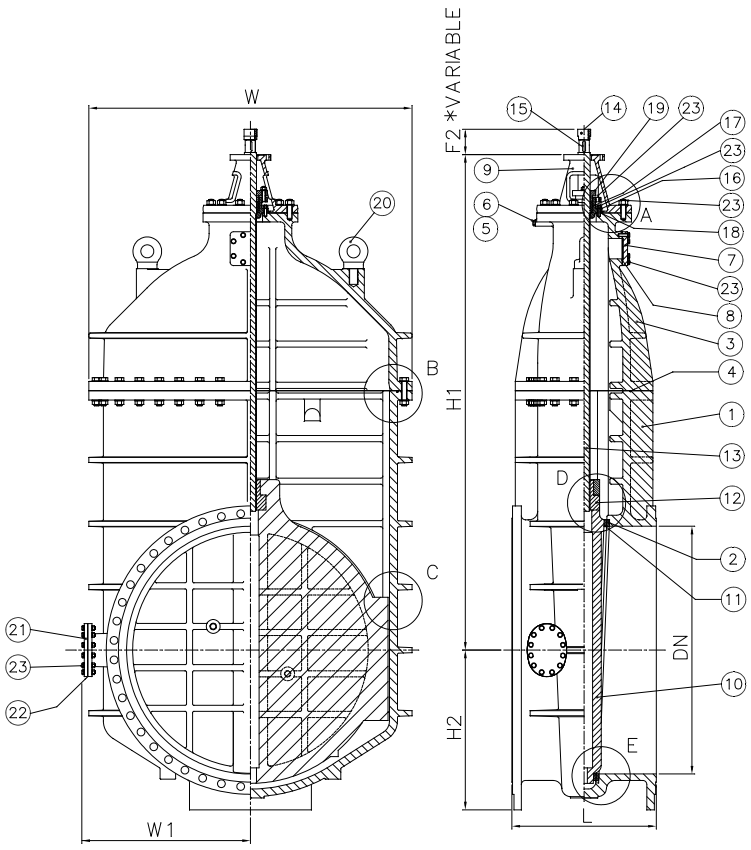
Materials:

Body	Ductile Iron EN 1563 EN-GJS-500/7
Bonnet	Ductile Iron EN 1563 EN-GJS-500/7
Wedge	Ductile Iron EN 1563 EN-GJS-500/7
Stool	Ductile Iron EN 1563 EN-GJS-500/7
Seats/Faces	Gun metal EN 1982 CC491K (LG2)
Wedge Nut	Gun metal EN 1982 CC491K (LG2)
Stem	Stainless Steel EN 10088 No 1.4057
Key	Carbon Steel BS 4235 Part 1
Plug	Brass EN 12165:CW602N
O-Rings	EPDM/NBR
Gasket	EPDM/NBR O-Ring
Fasteners	Zinc plated mild steel
Coating	Internal and external blue two pack epoxy coating (250 microns)

For further details see section "Technical Information."
The designs, materials, and specifications shown are subject to change without notice due to the continuous developement of our product programme.

METAL SEATED GATE VALVE, DN 1400-1800 54/3132/B

005



A. Stem sealing
Seal is by conventional stuffing box with ample depth to ensure long life to the PTFE packing

B. Body/bonnet connection
The assembly of the valve body and bonnet ensures a durable tightness:
A round rubber bonnet gasket fits into a recess in the valve bonnet preventing it from being blown out by pressure surges.

C. Shoes and channel (optional)
Shoes and Channels are manufactured from Gunmetal and help to reduce friction between the wedge and body during operation. Accurate alignment is also achieved. Shoes and Channels are necessary when horizontal installation of the valve is required.

D. Wedge nut
The wedge nut is made of bronze with lubricating abilities providing optimum compatibility with the stainless steel stem.

E. Wedge
The wedge is made from ductile iron with bronze face rings which are machined to a fine surface finish to ensure optimum contact seal with body seat rings. The wedge face rings are accurately machined and firmly secured to the wedge. The guides in the wedge ensure uniform closure regardless of high pressures. The wedge has a large through bore housing the stem that ensures no stagnant water or impurities can collect.

Component list

1.	Body
2.	Seat Ring
3.	Bonnet
4.	Cord
5.	Plug
6.	Gasket
7.	Inspection Cover
8.	Gasket
9.	Stool
10.	Wedge
11.	Wedge Ring
12.	Wedge Nut
13.	Stem
14.	Lock Nut
15.	Key
16.	Stuffing Box
17.	Gland Packing
18.	Gasket
19.	Gland
20.	Eyebolt
21.	Blanking plate
22.	Cord
23.	Fasteners

METAL SEATED GATE VALVE, DN 1400-1800 54/3132/B

005

Reference nos. and dimensions

AVK ref. nos.	DN mm	Closing direction	Prod. PN bar	PN drilling bar	L mm	H1 mm	H2 mm	W mm	W1 mm	ISO flange	Theoretical weight kg
54-1400-310343100	1400	CTC	16	10	876	2873	885	1956	1030	25	11,8 t
54-1400-310343101 #)	1400	CTC	16	10	876	2873	885	1956	1030	25	11,8 t
54-1400-311343100	1400	CTC	16	16	876	2873	885	1956	1030	25	11,8 t
54-1400-311343101 #)	1400	CTC	16	16	876	2873	885	1956	1030	25	11,8 t
54-1400-320343100	1400	CTO	16	10	876	2873	885	1956	1030	25	11,7 t
54-1400-320343101 #)	1400	CTO	16	10	876	2873	885	1956	1030	25	11,8 t
54-1400-321343100	1400	CTO	16	16	876	2873	885	1956	1030	25	11,8 t
54-1400-321343101 #)	1400	CTO	16	16	876	2873	885	1956	1030	25	11,8 t
54-1600-310343100	1600	CTC	16	10	914	3182	1020	2210	1092	25	14,6 t
54-1600-310343101 #)	1600	CTC	16	10	914	3182	1020	2210	1092	25	14,7 t
54-1600-311343100	1600	CTC	16	16	914	3182	1020	2210	1092	25	14,6 t
54-1600-311343101 #)	1600	CTC	16	16	914	3182	1020	2210	1092	25	14,7 t
54-1600-320343100	1600	CTO	16	10	914	3182	1020	2210	1092	25	14,6 t
54-1600-320343101 #)	1600	CTO	16	10	914	3182	1020	2210	1092	25	14,7 t
54-1600-321343100	1600	CTO	16	16	914	3182	1020	2210	1092	25	14,6 t
54-1600-321343101 #)	1600	CTO	16	16	914	3182	1020	2210	1092	25	14,7 t
54-1800-310344100	1800	CTC	16	10	1067	3662	1160	2388	1233	30	16,5 t
54-1800-310344101 #)	1800	CTC	16	10	1067	3662	1160	2388	1233	30	16,6 t
54-1800-311344100	1800	CTC	16	16	1067	3662	1160	2388	1233	30	16,5 t
54-1800-311344101 #)	1800	CTC	16	16	1067	3662	1160	2388	1233	30	16,6 t
54-1800-320344100	1800	CTO	16	10	1067	3662	1160	2388	1233	30	16,5 t
54-1800-320344101 #)	1800	CTO	16	10	1067	3662	1160	2388	1233	30	16,6 t
54-1800-321344100	1800	CTO	16	16	1067	3662	1160	2388	1233	30	16,5 t
54-1800-321344101 #)	1800	CTO	16	16	1067	3662	1160	2388	1233	30	16,6 t

Shoes & channels

METAL SEATED GATE VALVE DN 1400-1800 WITH BY-PASS

54/33
006

Metal seated gate valve, PN16, designed according to EN1074 part 1 & 2, Face to face according to EN 558 table 1 basic series 3.

Use:	For water, sewage and neutral liquids to max. 70°C
Hydraulic tests:	Seat: 1.1 x PN Body: 17 bar (PN 10), 25 bar (PN 16)
Applicable Standards:	To EN 1074 Part 1 & 2 : 2000 Flange drilling to EN 1092-2: PN 10 or PN 16
Options:	Handwheel Electric Actuation Bevel or Spur Gearboxes Alternative Trim Materials Jacking screw Inspection cover Extension Rods, Couplings & Guide Brackets Floor Pillar Nameplates Rising Stem

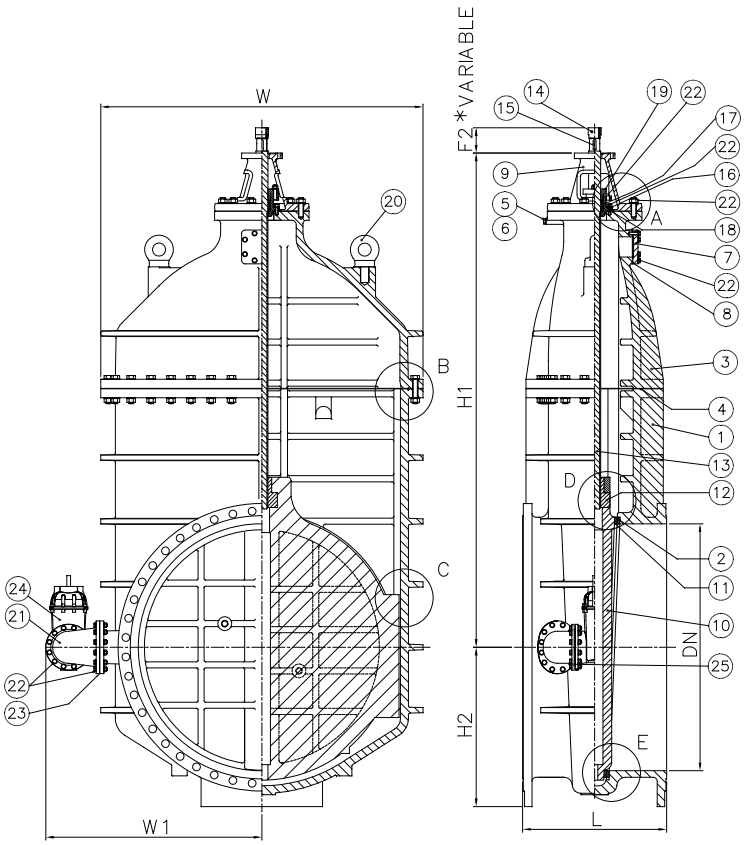
Valves must not be operated without a gearbox or actuator. Thrust is taken in the gearbox or actuator.

LNS numbers shown relate to the standard ISO mounting flange. For differential pressures of 10 bar and above, the mounting flange and LNS number may change.

Materials:

Body	Ductile Iron EN 1563 EN-GJS-500/7
Bonnet	Ductile Iron EN 1563 EN-GJS-500/7
Wedge	Ductile Iron EN 1563 EN-GJS-500/7
Stool	Ductile Iron EN 1563 EN-GJS-500/7
Bypass elbow	Ductile Iron EN 1563 EN-GJS-500/7
Seats/Faces	Gun metal EN 1982 CC491K (LG2)
Wedge Nut	Gun metal EN 1982 CC491K (LG2)
Stem	Stainless Steel EN 10088 No 1.4057
Key	Carbon Steel BS 4235 Part 1
Plug	Brass EN 12165:CW602N
O-Rings	EPDM/NBR
Gasket	EPDM/NBR O-Ring
Fasteners	Zinc plated mild steel
Coating	Internal and external blue two pack epoxy coating (250 microns)

For further details see section "Technical Information."
The designs, materials, and specifications shown are subject to change without notice due to the continuous developement of our product programme.



A. Stem sealing
Seal is by conventional stuffing box with ample depth to ensure long life to the PTFE packing

B. Body/bonnet connection
The assembly of the valve body and bonnet ensures a durable tightness:
A round rubber bonnet gasket fits into a recess in the valve bonnet preventing it from being blown out by pressure surges.

C. Shoes and channel (optional)
Shoes and Channels are manufactured from Gunmetal and help to reduce friction between the wedge and body during operation. Accurate alignment is also achieved. Shoes and Channels are necessary when horizontal installation of the valve is required.

D. Wedge nut
The wedge nut is made of bronze with lubricating abilities providing optimum compatibility with the stainless steel stem.

E. Wedge
The wedge is made from ductile iron with bronze face rings which are machined to a fine surface finish to ensure optimum contact seal with body seat rings. The wedge face rings are accurately machined and firmly secured to the wedge. The guides in the wedge ensure uniform closure regardless of high pressures. The wedge has a large through bore housing the stem that ensures no stagnant water or impurities can collect.

Component list

1.	Body
2.	Seat Ring
3.	Bonnet
4.	Cord
5.	Plug
6.	Gasket
7.	Inspection Cover
8.	Gasket
9.	Stool
10.	Wedge
11.	Wedge Ring
12.	Wedge Nut
13.	Stem
14.	Lock Nut
15.	Key
16.	Stuffing Box
17.	Gland Packing
18.	Gasket
19.	Gland
20.	Eyebolt
21.	Bend
22.	Fasteners
23.	Cord
24.	Bypass Valve series 21
25.	Cord

Reference nos. and dimensions

AVK ref. nos.	DN mm	Closing direction	Prod. PN bar	PN drilling bar	L mm	H1 mm	H2 mm	W mm	W1 mm	By-pass DN	ISO flange	Theoretical weight kg
54-1400-330343100	1400	CTC	16	10	876	2873	885	1956	1264	100	25	11,8 t
54-1400-330343101 #)	1400	CTC	16	10	876	2873	885	1956	1264	100	25	11,8 t
54-1400-331343100	1400	CTC	16	16	876	2873	885	1956	1264	100	25	11,8 t
54-1400-331343101 #)	1400	CTC	16	16	876	2873	885	1956	1264	100	25	11,8 t
54-1400-340343100	1400	CTO	16	10	876	2873	885	1956	1264	100	25	11,8 t
54-1400-340343101 #)	1400	CTO	16	10	876	2873	885	1956	1264	100	25	11,8 t
54-1400-341343100	1400	CTO	16	16	876	2873	885	1956	1264	100	25	11,8 t
54-1400-341343101 #)	1400	CTO	16	16	876	2873	885	1956	1264	100	25	11,8 t
54-1600-330343100	1600	CTC	16	10	914	3182	1020	2210	1500	150	25	14,6 t
54-1600-330343101 #)	1600	CTC	16	10	914	3182	1020	2210	1500	150	25	14,7 t
54-1600-331343100	1600	CTC	16	16	914	3182	1020	2210	1500	150	25	14,6 t
54-1600-331343101 #)	1600	CTC	16	16	914	3182	1020	2210	1500	150	25	14,7 t
54-1600-340343100	1600	CTO	16	10	914	3182	1020	2210	1500	150	25	14,6 t
54-1600-340343101 #)	1600	CTO	16	10	914	3182	1020	2210	1500	150	25	14,7 t
54-1600-341343100	1600	CTO	16	16	914	3182	1020	2210	1500	150	25	14,6 t
54-1600-341343101 #)	1600	CTO	16	16	914	3182	1020	2210	1500	150	25	14,7 t
54-1800-330344100	1800	CTC	16	10	1067	3662	1160	2388	1601	200	30	16,5 t
54-1800-330344101 #)	1800	CTC	16	10	1067	3662	1160	2388	1601	200	30	16,6 t
54-1800-331344100	1800	CTC	16	16	1067	3662	1160	2388	1601	200	30	16,5 t
54-1800-331344101 #)	1800	CTC	16	16	1067	3662	1160	2388	1601	200	30	16,6 t
54-1800-340344100	1800	CTO	16	10	1067	3662	1160	2388	1601	200	30	16,5 t
54-1800-340344101 #)	1800	CTO	16	10	1067	3662	1160	2388	1601	200	30	16,6 t
54-1800-341344100	1800	CTO	16	16	1067	3662	1160	2388	1601	200	30	16,5 t
54-1800-341344101 #)	1800	CTO	16	16	1067	3662	1160	2388	1601	200	30	16,6 t

Shoes & channels