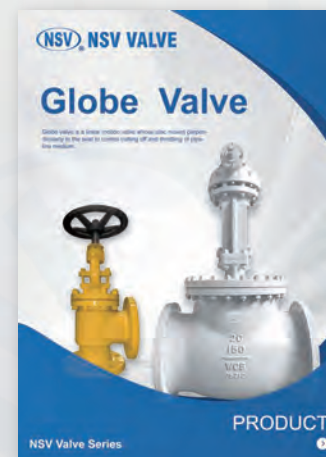


KGV Catalog

Knife gate valve, also known as slide gate valve, is a special type of gate valve designed for cutting off medium with solid particles, slurry, powder and fibrous materials.





Brief introduction

NSV VALVE CORPORATION is a leading manufacturer of knife gate valve & Segment ball valves.

NSV Valve started business in 1992 and established in 2004 with overseas business. Company owned 2 manufacturing plants. The products are ISO, CE, TS approved.

We committed to designing and develop customized products. With many years of foreign business, valve products keep improving. We hope NSV-made will be your first choice.

Our Hot-sale Products:

Knife Gate Valves

Segment Ball Valves

Traditional products: ASME Gate valve, globe valve, swing check valve and triple offset butterfly valves.



**Quality control during
whole production
100% test before delivery
CE&ISO Certificates**

QUALIFICATIONS



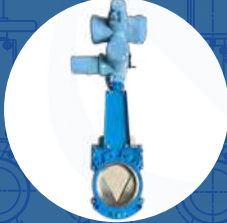
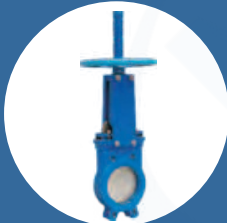
Standard Certificate

NSV is a professional valve supplier with 20 years manufacturing experience,with our high quality and perfect service that we got good reputation from domestic and oversea customers.

In order to assure our customers that NSV products and services fully meets their quality requirements, our internal procedures and processes are strictly according to ISO 9001:2008 standard. The Quality Management System is applicable to the manufacture of valves,we also have passed approvals such as API,CE,TS and so on,which guarantee our consummate quality control system.

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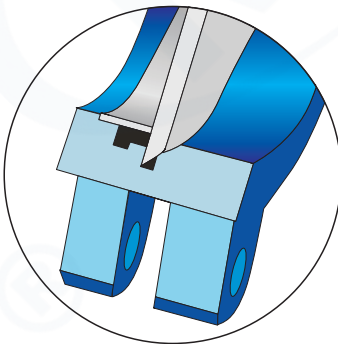
Flange drillings: PN10/Class 150/JIS 10K/AS 2129
Materials: GGG40/CF8/CF8M/ALLOY
Operation: Manual, Pneumatic, Electric, Hydraulic

Flange drillings: PN10/Class 150/JIS 10K/AS 2129
Materials: GGG40/CF8/CF8M/ALLOY
Operation: Manual, Pneumatic, Electric, Hydraulic

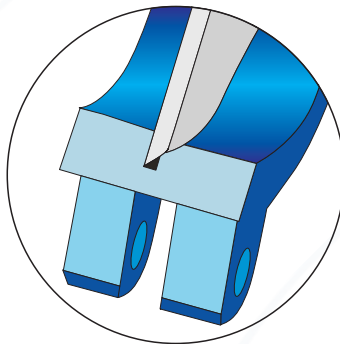
Features

- Stem Protector
- Indicator
- Support yoke
- Knife
- Replacement seat
- Monoblock body with epoxy coating
(Fusion bonded paint)

Sealing types



Rubber seat



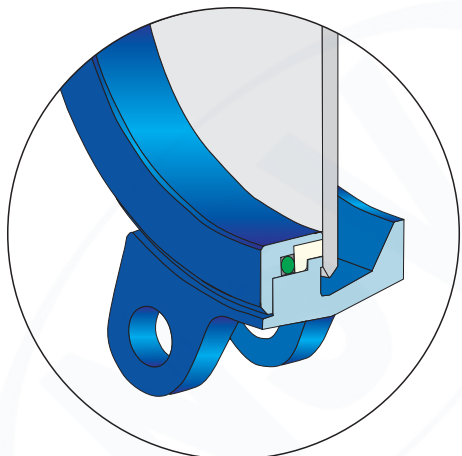
Metal Seat



GKU

Features

- The GKU and GKO can easily with actuators and related automation accessories .
- High performance seat system is easily be removed for seat change.
- Scraper on request



PTFE



GKO

Rising stem Handwheel

GKU/GK073

Non rising stem Handwheel

GKU/GK075

Flange drilling: PN10/150LB/JIS 10K/AS 2129

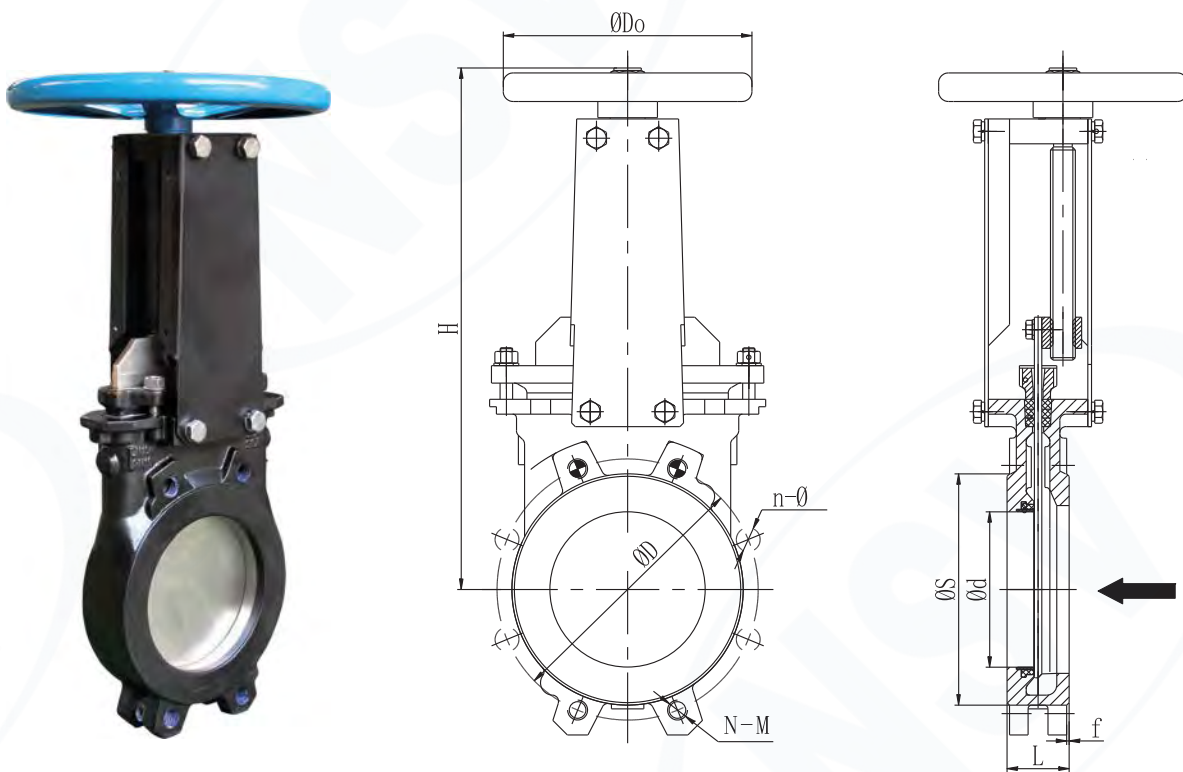
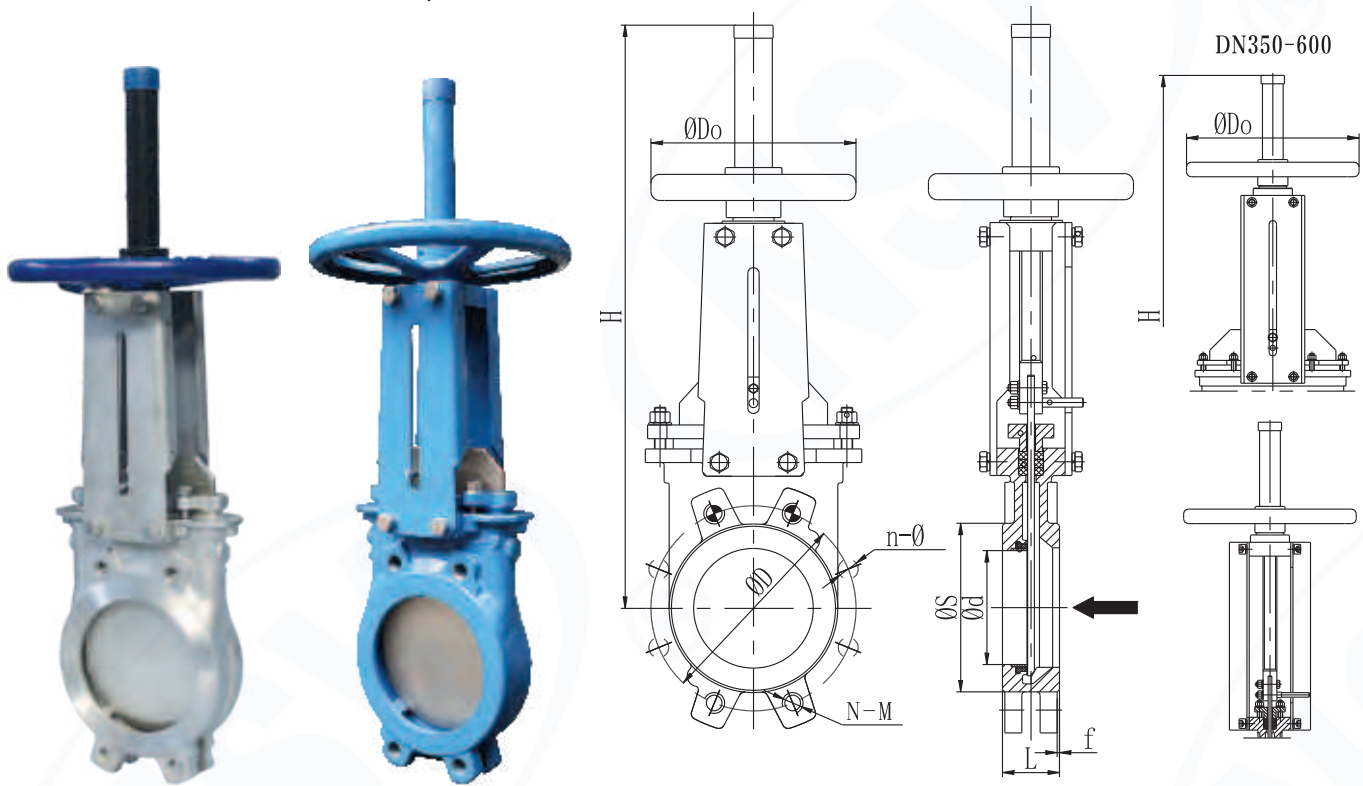
Size range: DN50-DN1800

Material: GGG40/Stainless steel/Special material

Flange drilling: PN10/150LB/JIS 10K/AS 2129

Size range: DN50-DN1800

Material: GGG40/Stainless steel/Special material



● Main dimensions

PN10

DN	d	L	D	S	f	N-M	n-Φ	Do	H
※50	50	48	125	92	2	4-M16	/	200	415
65	65	48	145	110	2	4-M16	/	200	435
80	80	50	160	127	2	4-M16	4-φ 18	200	465
100	100	50	180	153	2	4-M16	4-φ 18	200	500
※125	125	57	210	182	2	4-M16	4-φ 18	200	565
150	150	60	240	207	2	4-M20	4-φ 22	300	706
200	200	60	295	260	2	4-M20	4-φ 22	300	805
250	250	70	350	320	2	6-M20	6-φ 22	350	975
300	300	70	400	369	2	6-M20	6-φ 22	350	1120
※350	336	76	460	413	2	8-M20	8-φ 22	500	1320
※400	385	89	515	470	2	8-M24	8-φ 27	500	1445
※450	438	89	565	531	2	12-M24	8-φ 27	500	1630
500	489	110	620	573	2	12-M24	8-φ 27	500	1790
600	570	110	725	646	2	12-M27	8-φ 30	500	2050

≥DN700 , please contact manufacturer

Size which marked※ , the face to face in table (L) is standard length. For alternative length, please consult the manufacturer.

● Main dimensions

PN10

DN	d	L	D	S	f	N-M	n-Φ	Do	H
※50	50	48	125	92	2	4-M16	/	200	289
65	65	48	145	110	2	4-M16	/	200	312
80	80	50	160	127	2	4-M16	4-φ 18	200	340
100	100	50	180	153	2	4-M16	4-φ 18	200	375
※125	125	57	210	182	2	4-M16	4-φ 18	200	414
150	150	60	240	207	2	4-M20	4-φ 22	300	475
200	200	60	295	260	2	4-M20	4-φ 22	300	567
250	250	70	350	320	2	6-M20	6-φ 22	350	686
300	300	70	400	369	2	6-M20	6-φ 22	350	790
※350	336	76	460	413	2	8-M20	8-φ 22	500	905
※400	385	89	515	470	2	8-M24	8-φ 27	500	1013
※450	438	89	565	531	2	12-M24	8-φ 27	500	/
500	489	110	620	573	2	12-M24	8-φ 27	500	/
600	570	110	725	646	2	12-M27	8-φ 30	500	/

≥DN700 , please contact manufacturer

Size which marked※ , the face to face in table (L) is standard length. For alternative length, please consult the manufacturer.

Flange drilling: PN10/150LB/JIS 10K/AS 2129

Size range: DN50-DN800

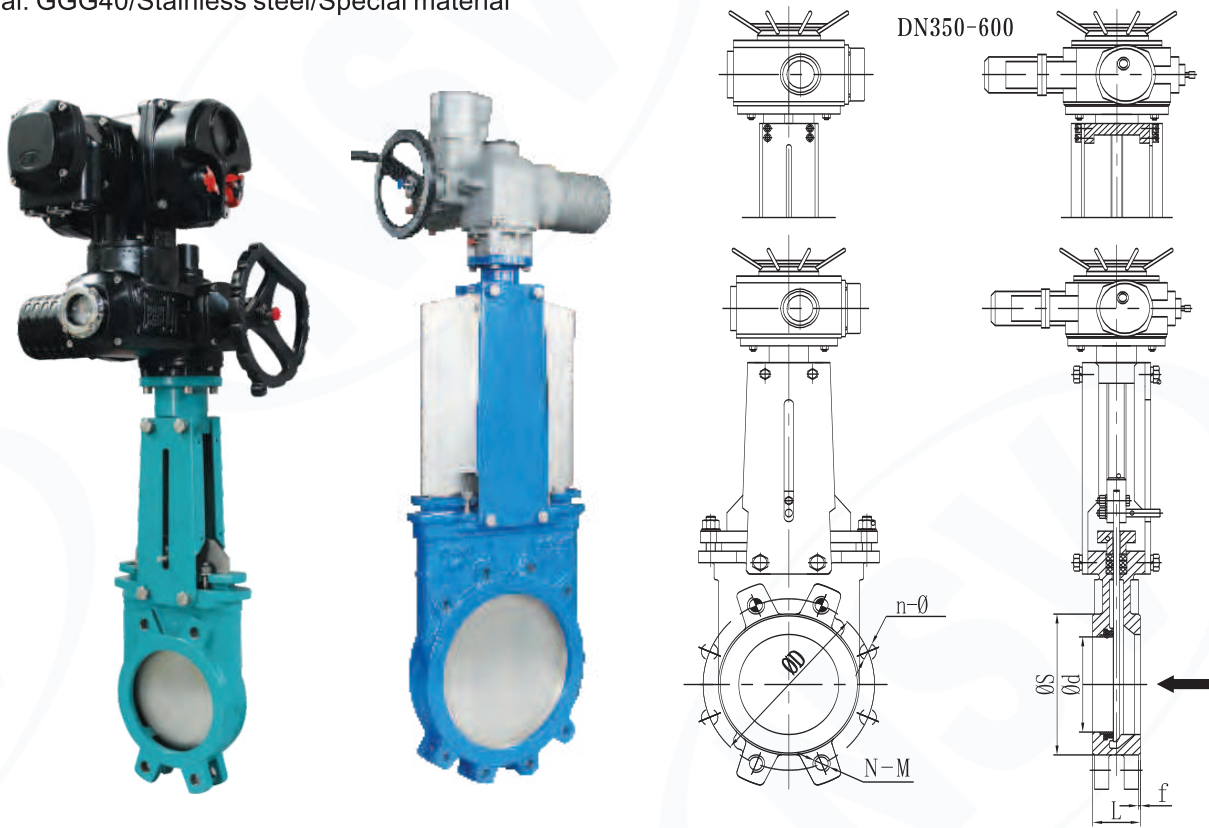
Material: GGG40/Stainless steel/Special material



Flange drilling: PN10/150LB/JIS 10K/AS 2129

Size range: DN50-DN1800

Material: GGG40/Stainless steel/Special material



● Main dimensions

PN10

DN	d	L	D	S	f	N-M	n-Φ	H
※50	50	48	125	92	2	4-M16	/	415
65	65	48	145	110	2	4-M16	/	455
80	80	50	160	127	2	4-M16	4-φ 18	496
100	100	50	180	153	2	4-M16	4-φ 18	555
※125	125	57	210	182	2	4-M16	4-φ 18	655
150	150	60	240	207	2	4-M20	4-φ 22	732
200	200	60	295	260	2	4-M20	4-φ 22	885
250	250	70	350	320	2	6-M20	6-φ 22	1060
300	300	70	400	369	2	6-M20	6-φ 22	1215
※350	336	76	460	413	2	8-M20	8-φ 22	1458
※400	385	89	515	470	2	8-M24	8-φ 27	1620
※450	438	89	565	531	2	12-M24	8-φ 27	1765
500	489	110	620	573	2	12-M24	8-φ 27	1925
600	570	110	725	646	2	12-M27	8-φ 30	2265

≥DN700 , please contact manufacturer

Size which marked ※ , the face to face in table (L) is standard length. For alternative length, please consult the manufacturer.

● Main dimensions

PN10

DN	d	L	D	S	f	N-M	n-Φ
※50	50	48	125	92	2	4-M16	/
65	65	48	145	110	2	4-M16	/
80	80	50	160	127	2	4-M16	4-φ 18
100	100	50	180	153	2	4-M16	4-φ 18
※125	125	57	210	182	2	4-M16	4-φ 18
150	150	60	240	207	2	4-M20	4-φ 22
200	200	60	295	260	2	4-M20	4-φ 22
250	250	70	350	320	2	6-M20	6-φ 22
300	300	70	400	369	2	6-M20	6-φ 22
※350	336	76	460	413	2	8-M20	8-φ 22
※400	385	89	515	470	2	8-M24	8-φ 27
※450	438	89	565	531	2	12-M24	8-φ 27
500	489	110	620	573	2	12-M24	8-φ 27
600	570	110	725	646	2	12-M27	8-φ 30

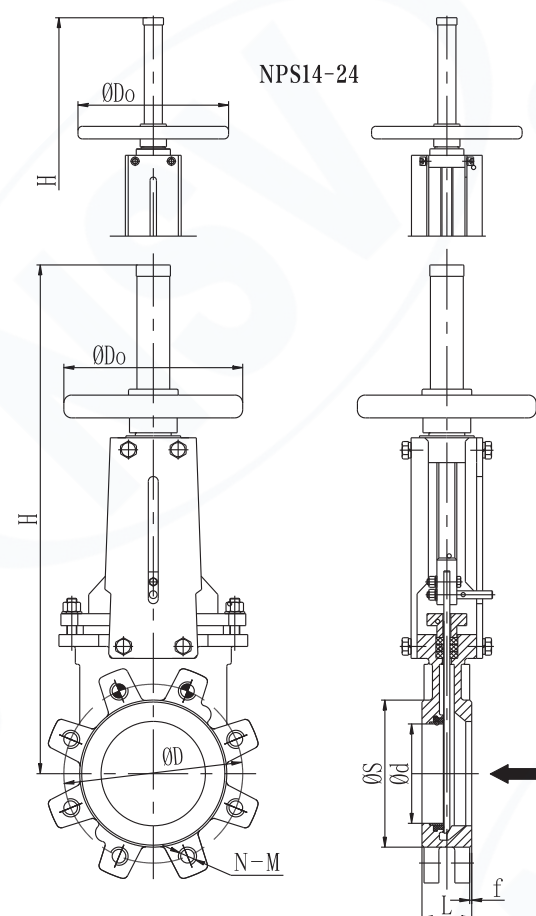
≥DN700 , please contact manufacturer

Size which marked ※ , the face to face in table (L) is standard length. For alternative length, please consult the manufacturer.

Full lug rising stem handwheel

GKU/GKO83

Flange drilling: Class 150
Size range: NPS2-NPS72
Material: GGG40/Stainless steel/Special material

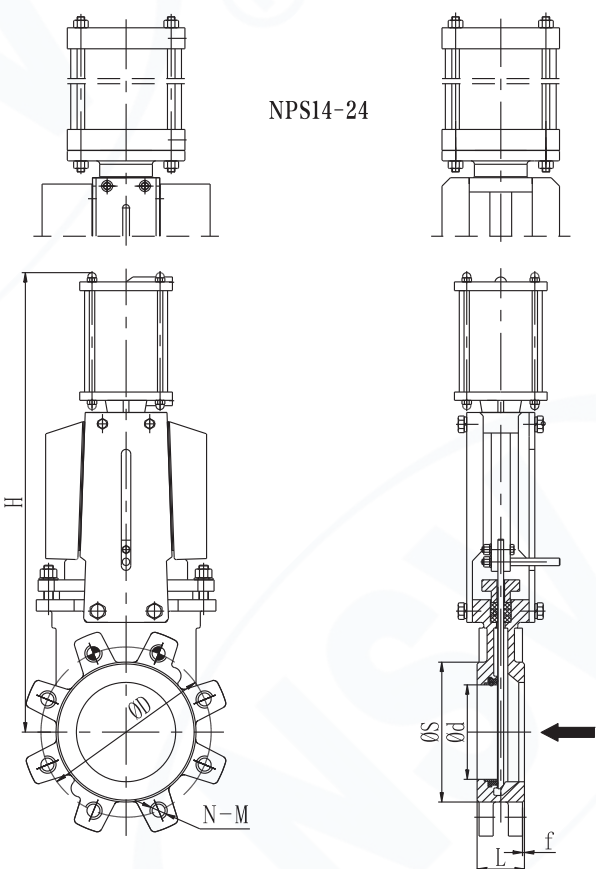


150LB

Full lug pneumatical

GKU/GKO683

Flange drilling: Class 150
Size range: NPS2-NPS32
Material: GGG40/Stainless steel/Special material



150LB

● Main dimensions

NPS	d	L	D	S	f	N-M(UNC)	H	Do
2	50	48	120.7	92.1	2	4-5/8"-11	415	200
2 1/2	65	48	139.7	104.8	2	4-5/8"-11	435	200
3	80	51	152.4	127.0	2	4-5/8"-11	465	200
4	100	51	190.5	157.0	2	8-5/8"-11	500	200
5	125	57	215.9	186.0	2	8-3/4"-10	565	200
6	150	57	241.3	215.9	2	8-3/4"-10	706	300
8	200	70	299.0	270	2	8-3/4"-10	805	300
10	250	70	362.0	323.8	2	12-7/8"-9	975	350
12	300	76	431.8	381.0	2	12-7/8"-9	1120	350
14	336	76	476.3	412.8	2	12-1"-8	1320	500
16	385	89	539.8	469.9	2	16-1"-8	1445	500
18	438	89	578.0	533.0	2	16-1 1/8"-7	1630	500
20	489	114	635.0	584.0	2	20-1 1/8"-7	1790	500
24	570	114	749.5	692.0	2	20-1 1/4"-7	2050	500

≥NPS26 , please contact manufacturer

● Main dimensions

NPS	d	L	D	S	f	N-M(UNC)	H
2	50	48	120.7	92.1	2	4-5/8"-11	415
2 1/2	65	48	139.7	104.8	2	4-5/8"-11	455
3	80	51	152.4	127.0	2	4-5/8"-11	496
4	100	51	190.5	157.0	2	8-5/8"-11	555
5	125	57	215.9	186.0	2	8-3/4"-10	655
6	150	57	241.3	215.9	2	8-3/4"-10	732
8	200	70	299.0	270	2	8-3/4"-10	885
10	250	70	362.0	323.8	2	12-7/8"-9	1060
12	300	76	431.8	381.0	2	12-7/8"-9	1220
14	336	76	476.3	412.8	2	12-1"-8	1458
16	385	89	539.8	469.9	2	16-1"-8	1620
18	438	89	578.0	533.0	2	16-1 1/8"-7	1765
20	489	114	635.0	584.0	2	20-1 1/8"-7	1925
24	570	114	749.5	692.0	2	20-1 1/4"-7	2265

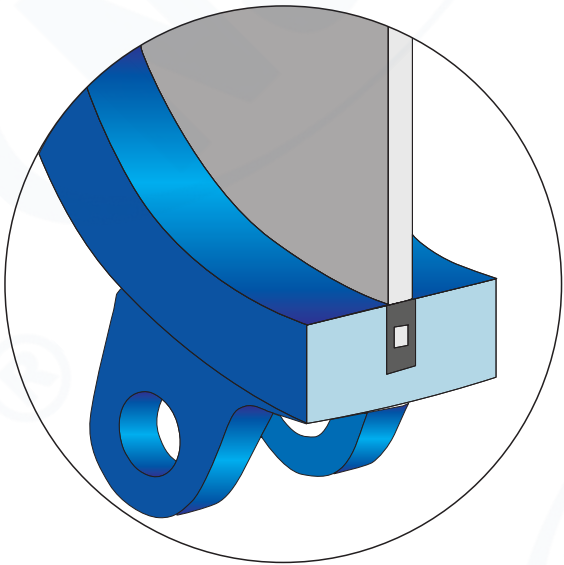
≥NPS26 , please contact manufacturer

Flange drilling: PN10/150LB/JIS 10K/AS 2129
Material: GGG40
Operation: Manual, pneumatic, electric, hydraulic

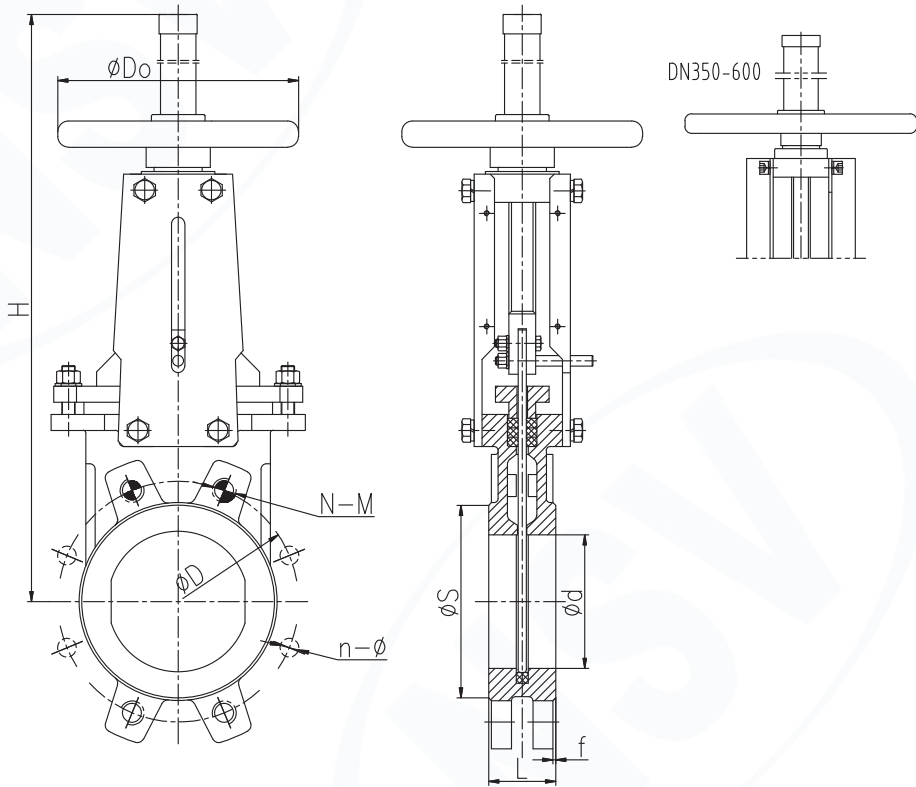
Flange drilling: PN10/150LB/JIS 10K/AS 2129
Size range: DN50-800
Material: GGG40

Features

- Stem protector
- Indicator
- Monoblock
- U shape seat
- Support yoke
- Epoxy coating-Fusion bonded paint
- Sealing type



GKB



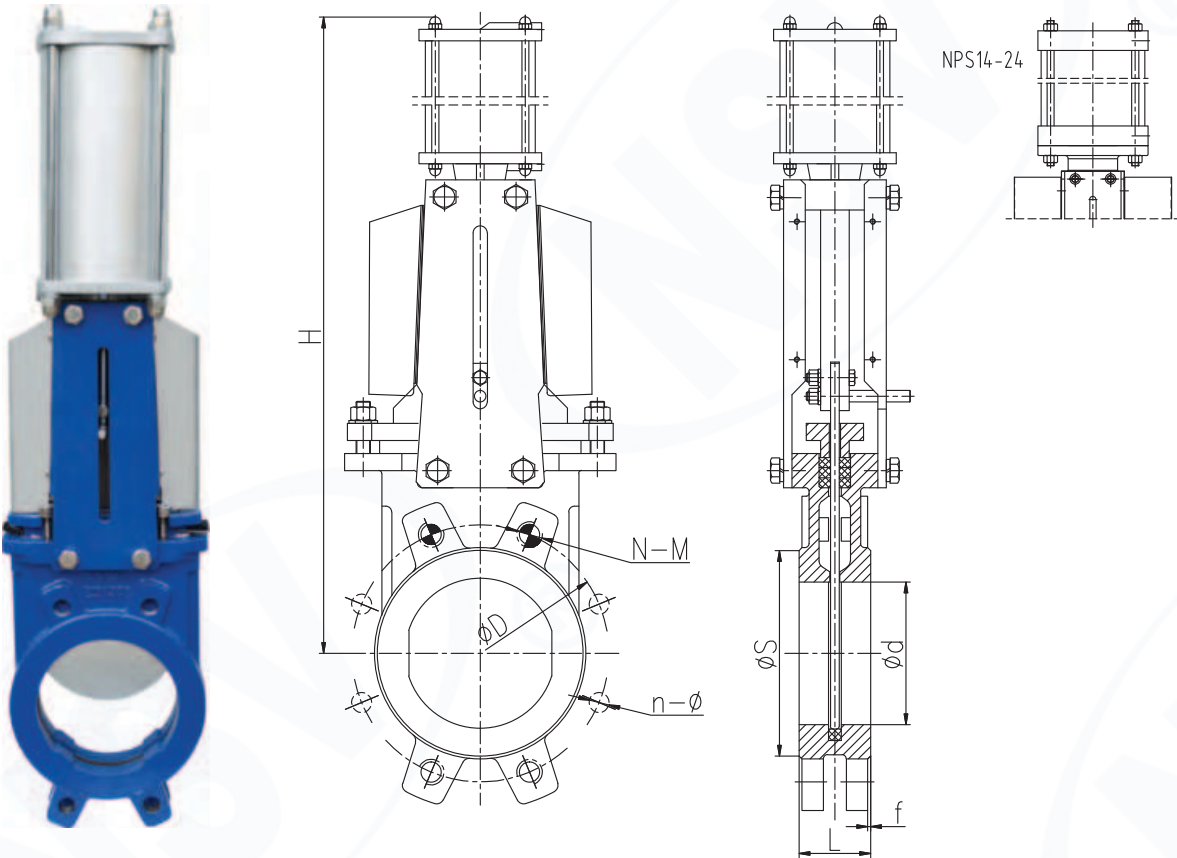
Main dimensions

PN10

DN	L	D	S	C	f	N-M	n-Φ	B	H	Do
50	40	125	95	16	2	4-M16	/	136	375	180
65	40	145	110	16	2	4-M16	/	151	420	180
80	50	160	127	17	2	4-M16	4-Φ18	170	450	200
100	50	180	148	17	2	4-M16	4-Φ18	190	515	200
125	50	210	174	17	2	4-M20	4-Φ18	212	570	220
150	60	240	199	21	2	4-M16	4-Φ22	230	665	250
200	60	295	250	21	2	4-M20	4-Φ22	286	825	300
250	70	350	308	24	2	8-M20	4-Φ22	338	1000	350
300	70	400	360	24	2	8-M20	4-Φ22	388	1155	350
350	96	460	416	33	2	10-M20	6-Φ22	460	1310	400
400	100	515	466	35	2	10-M24	6-Φ26	520	1475	500

≥DN450, please contact manufacturer

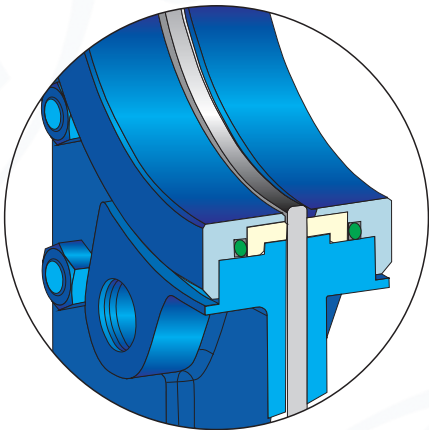
Flange drilling: PN10/150LB/JIS 10K/AS 2129
Size range: DN50-DN800
Material: GGG40



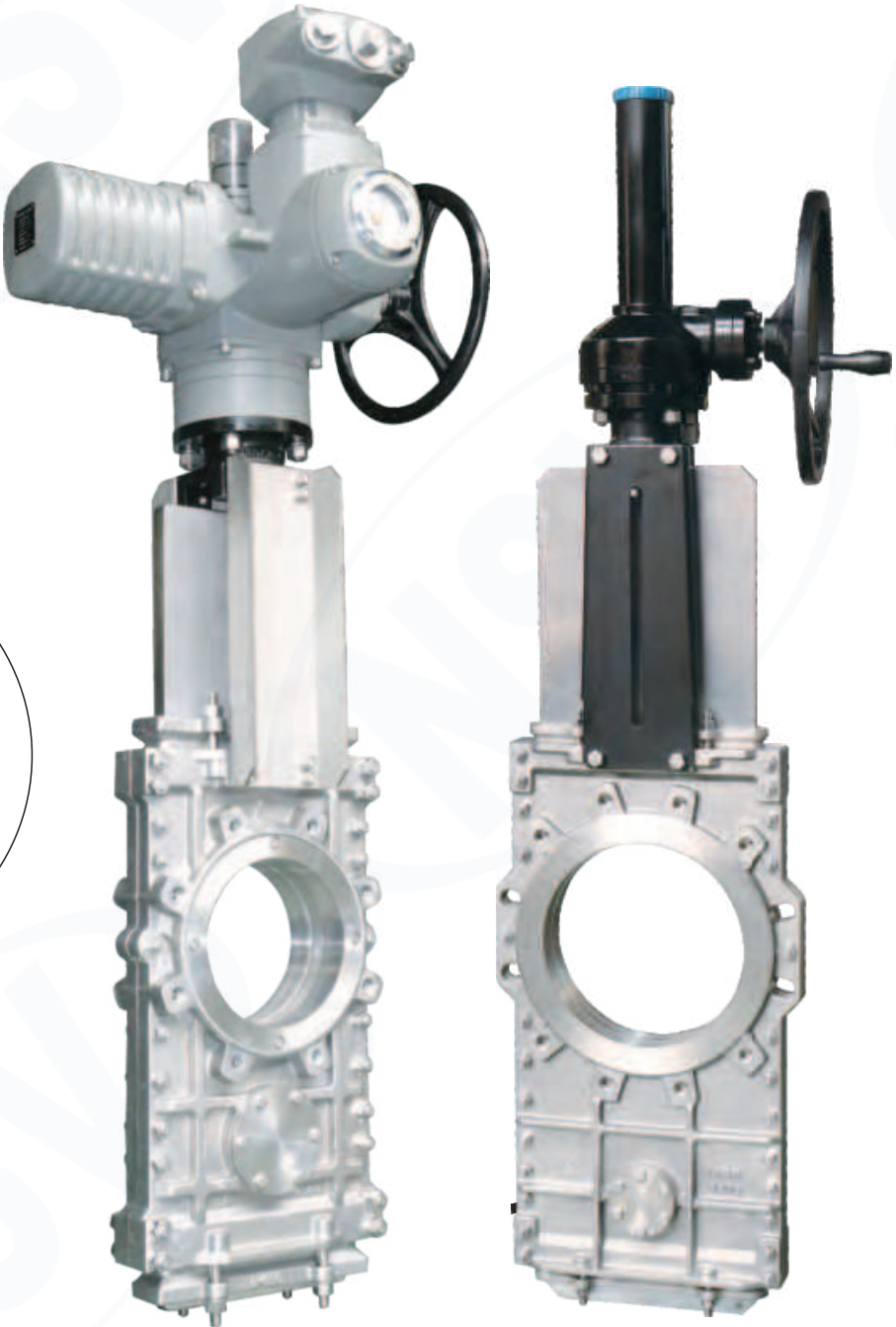
Flange drilling: PN10/150LB/10K/AS 2129
Material: GGG40/CF8/CF8M/ALLOY
Operation: Manual, pneumatic, electric, hydraulic

FEATURES

- Split Body
- Through-going knife
- High performance seat structure
- Bi-directional zero Leakage shut-off



PTFE



GKR

GKT

High pressure GKR for Phosphorus
Ore Application

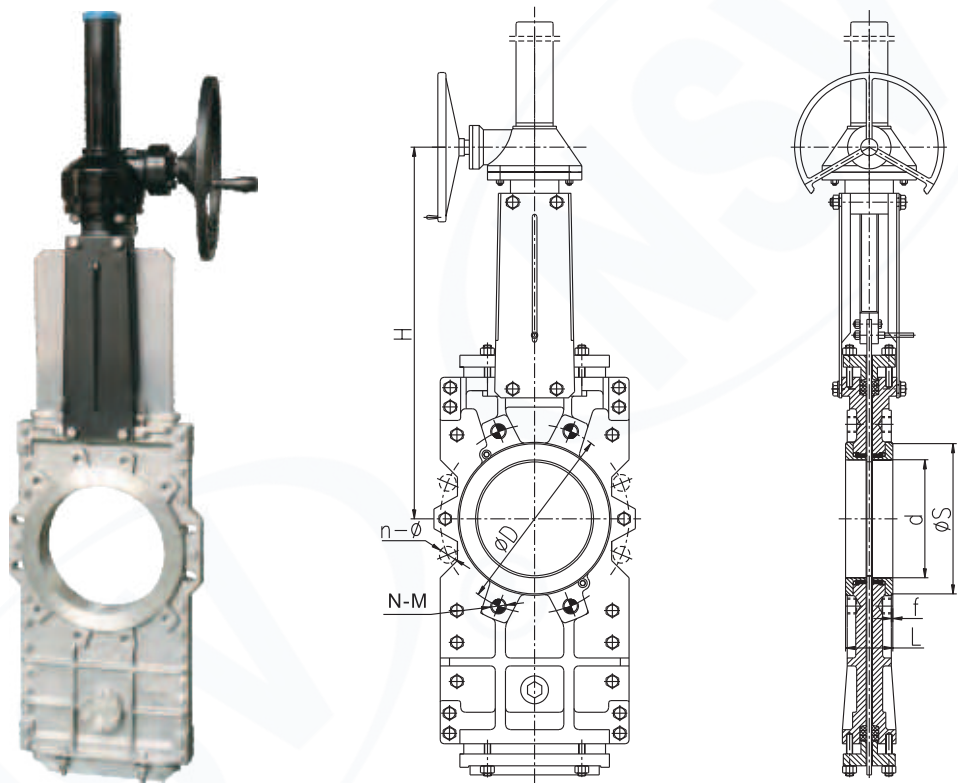
Main dimensions

PN10

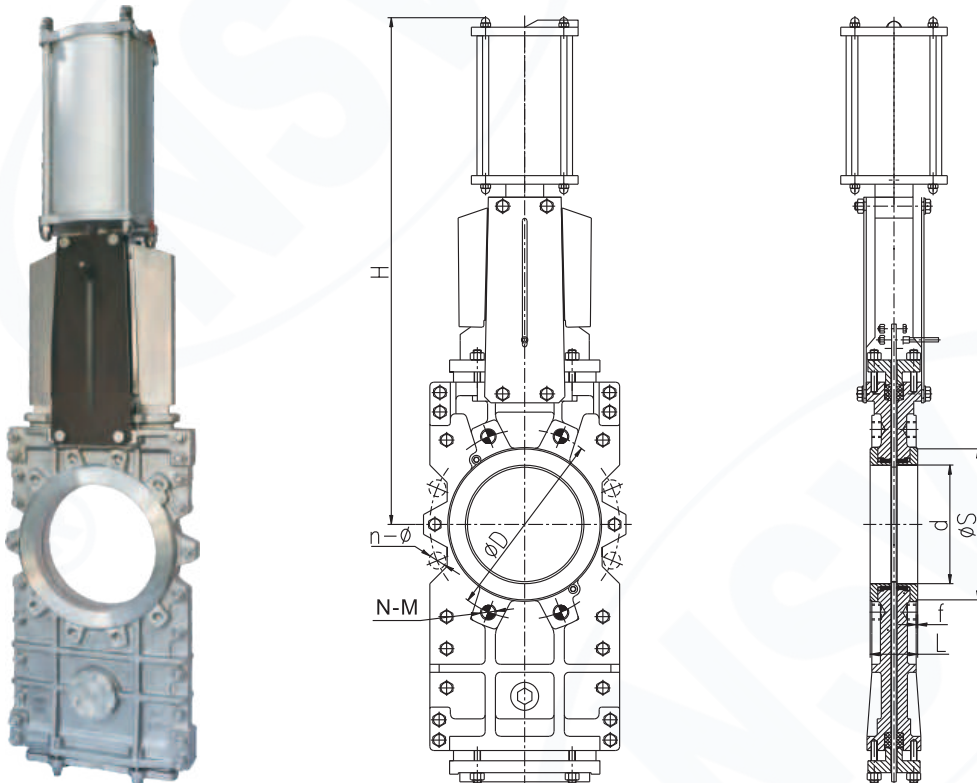
DN	L	D	S	C	f	N-M	n-Φ	B	H
50	40	125	95	16	2	4-M16	/	136	430
65	40	145	110	16	2	4-M16	/	151	460
80	50	160	127	17	2	4-M16	4-Φ18	170	510
100	50	180	148	17	2	4-M16	4-Φ18	190	570
125	50	210	174	17	2	4-M16	4-Φ18	212	660
150	60	240	199	21	2	4-M20	4-Φ22	230	720
200	60	295	250	21	2	4-M20	4-Φ22	286	890
250	70	350	308	24	2	8-M20	4-Φ22	338	1120
300	70	400	360	24	2	8-M20	4-Φ22	388	1230
350	96	460	416	33	2	10-M20	6-Φ22	460	1370
400	100	515	466	35	2	10-M24	6-Φ26	520	1570

≥DN450, please contact manufacturer

Flange drilling: PN10/150LB/JIS 10K/AS 2129
Size range: DN100-DN600
Material: Stainless steel/WCB/GGG40



Flange drilling: PN10/150LB/JIS 10K/AS 2129
Size range: NPS2-NPS24
Material: Stainless steel/WCB/GGG40



● Main dimensions

PN10

DN	d	L	D	S	f	N-M	n-Φ	H
100	100	51	180	153	2	4-M16	4-Φ18	456
125	125	57	210	182	2	4-M16	4-Φ18	496
150	150	57	240	216	2	4-M20	4-Φ22	552
200	200	70	295	270	2	4-M20	4-Φ22	645
250	250	70	350	324	2	8-M20	4-Φ22	765
300	300	76	400	381	2	8-M20	4-Φ22	870
350	336	76	460	413	2	12-M20	4-Φ22	983
400	385	89	515	469	2	12-M24	4-Φ27	1096

≥DN450 , please contact manufacture

● Main dimensions

150LB

NPS	d	L	D	S	f	N-M (UNC)	n-Φ	H
4	100	51	190.5	153	2	4-5/8"-11	4-Φ18	500
5	125	57	215.9	182	2	4-3/4"-10	4-Φ22	570
6	150	57	241.3	216	2	4-3/4"-10	4-Φ22	665
8	200	70	298.5	270	2	4-3/4"-10	4-Φ22	810
10	250	70	362.0	324	2	8-7/8"-9	4-Φ26	970
12	300	76	431.8	381	2	8-7/8"-9	4-Φ26	1125
14	336	76	476.3	413	2	8-1"-8	4-Φ29	1280
16	385	89	539.8	469	2	12-1"-8	4-Φ29	1435

≥NPS18 , please contact manufacture

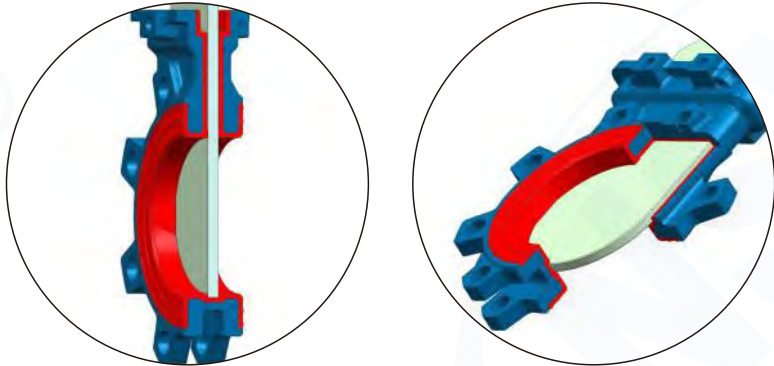
Flange Standard: PN10/Class150/JIS10K/AS2129
Materials: Ductile Cast Iron
Operation:Manual,Pneumatic,Electrc,Hydraulic

- Valve Stem Protection Tube (Manual Valve)
Prevent the valve stem from being splashed by external foreign matter.
- Position Indicator
Indicate the open/closed status and opening degree of the valve.
- Actuator Drive Rod Dust Boot (Pneumatic or Hydraulic Valve)
Prevent sundries from adhering to the piston rod, effectively extending the service life of the actuator.
- Gapless Full Polyurethane Lining Inside Valve Cavity
It features excellent wear resistance, full guiding during opening and closing, and self-cleaning function.The valve operates smoothly without jamming, ensuring an ultra-long service life.
- Reinforced Gate Platel
mprove the durability of the valve and guarantee its ultra-long service life.
- Integral Valve Body
Solid and deformation-resistant, preventing medium leakage.

● Rated pressure

DN50-DN25010Bar
DN4505Bar

DN300-DN4006Bar
DN500-DN6004Bar

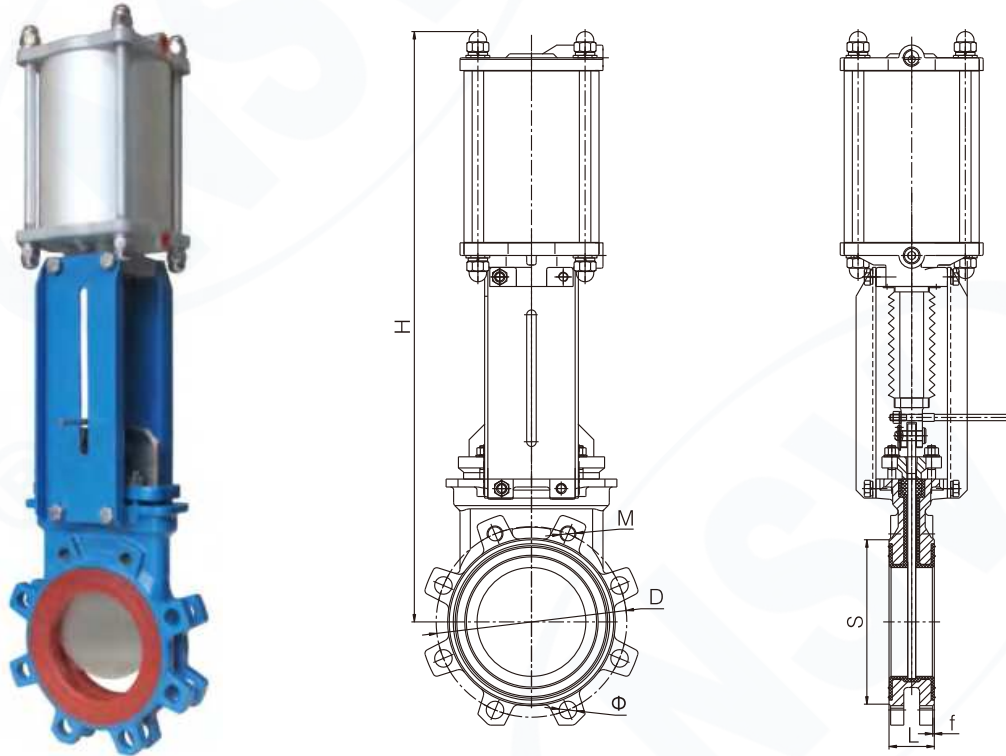


● Sealing type



GKN Series

Flange Standard: PN10/PN16/150LB/10K/AS2129
Nominal Diameter: DN50-DN600
Valve Body Material: Ductile Iron
Operation Mode: Pneumatic



● Main dimensions

PN10

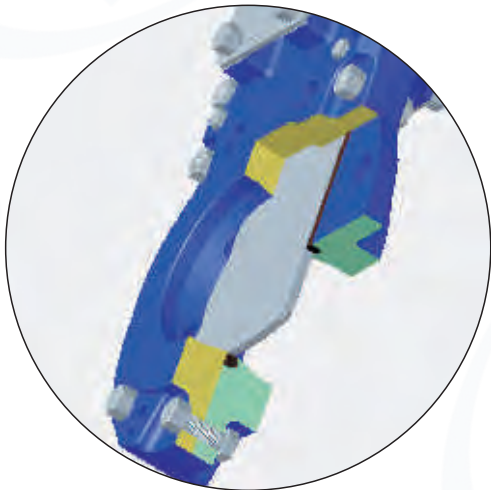
DN	L	ΦD	ΦS	f	M	Φ	H
100	51	180	153	2	2-M16	6-Φ18	605
150	57	240	207	2	2-M20	6-Φ22	788
200	70	295	260	2	2-M20	6-Φ22	1010
250	70	350	320	2	4-M20	8-Φ22	1195
300	76	400	369	2	4-M20	8-Φ22	1370
350	76	460	413	2	6-M20	10-Φ22	1635
400	89	515	470	2	6-M24	10-Φ26	1795

≥DN450, Please inquire for details

Flange drilling: PN10/150LB/JIS 10K/AS 2129
Material: GGG40/CF8/CF8M/ALLOY
Operation: Manual, pneumatic, electric, hydraulic

Features

- Bidirectional
 - Split Body
 - Flatness knife
 - Light torque
 - Support yoke
 - Epoxy coating-Fusion bonded paint
 - Sealing type
- The maintenance-free compact cross seal (double seal lips profile) guarantees tight shutoff and can be adjusted without interrupting the working process.
- The self-cleaning effect is achieved by flush-out corners in the body and the cutting edge underneath the gate. solids and fibres are cut by the cutting edge before tightening is done against the elastic seat. The guidance of the gate is interrupted on stroke length, thus dirt can be ejected.
- Bidirectional shutoff is achieved by the lateral gate surfaces and elastic seat which is integrated in the body. The seat is chambered and prestressed mounted. The high finish of the guide-and sealing surface at both sides guarantees long service and tight shutoff. The lateral guidance of the gate prevents the gate from fluttering in either of the flow directions or in throttle positions.

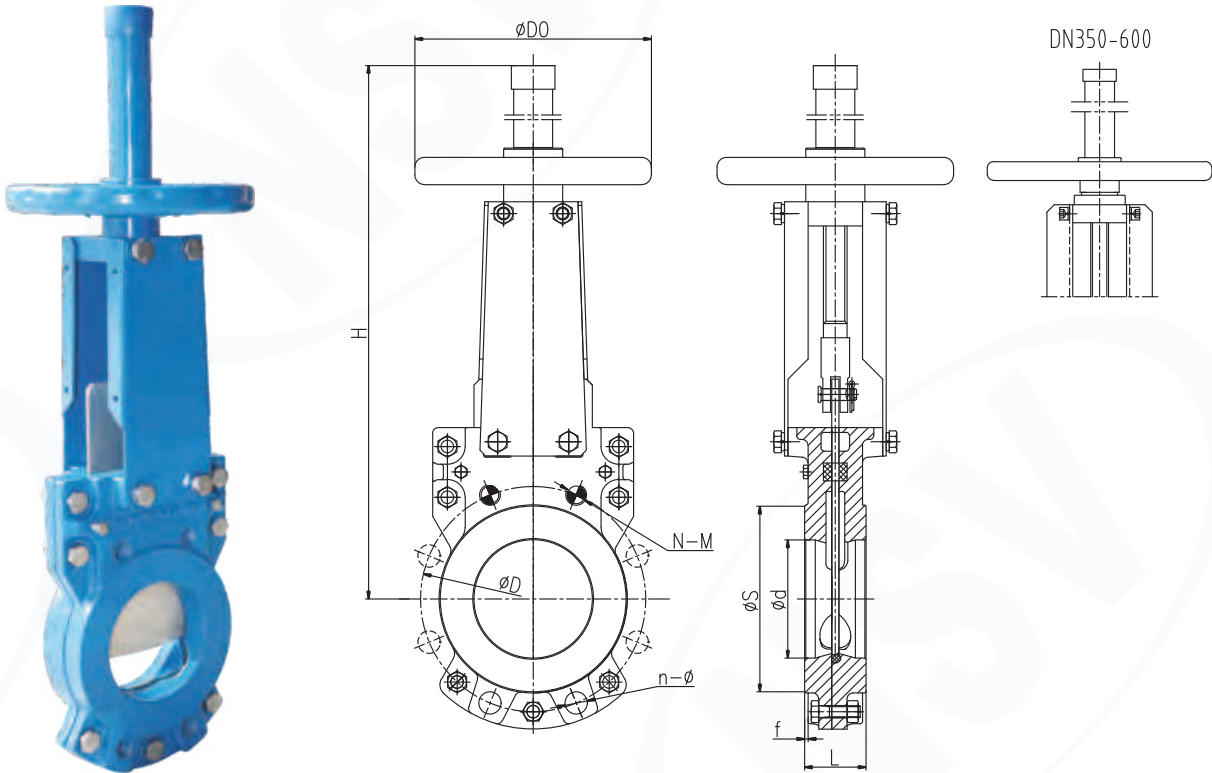


Rubber seat



GKJ

Flange drilling: PN10/150LB/JIS 10K/AS 2129
Size range: DN50-DN800
Material: Stainless steel/GGG40/WCB



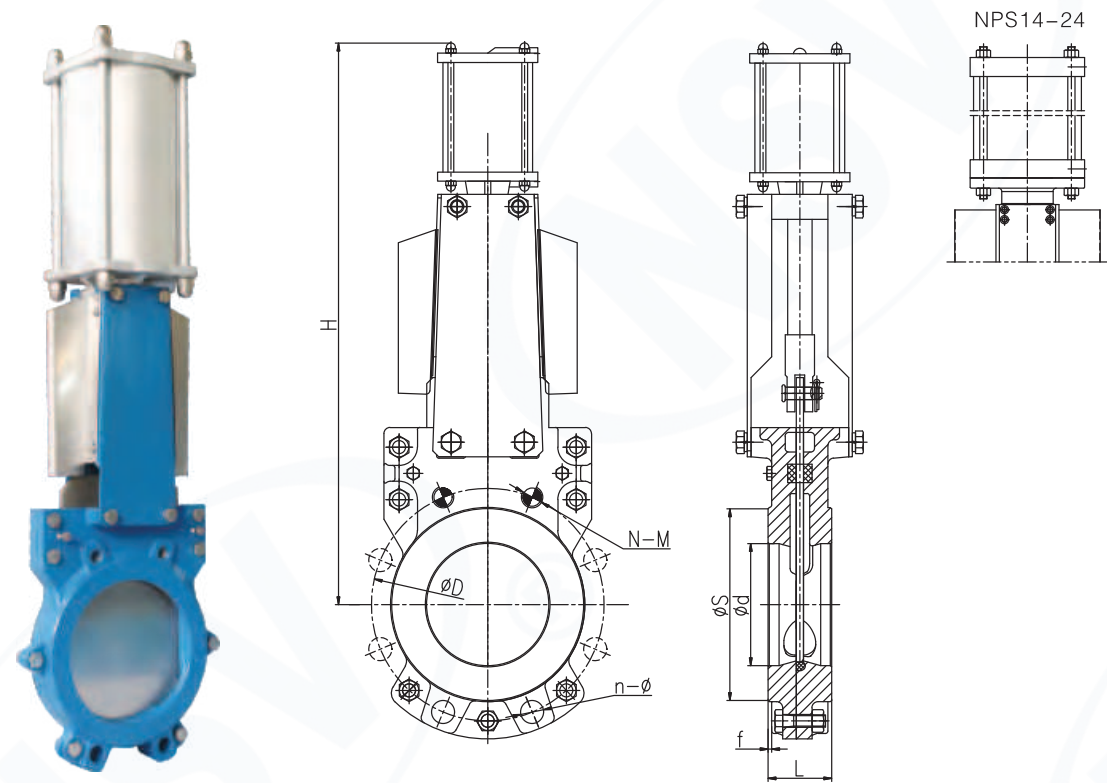
Main dimensions

PN10

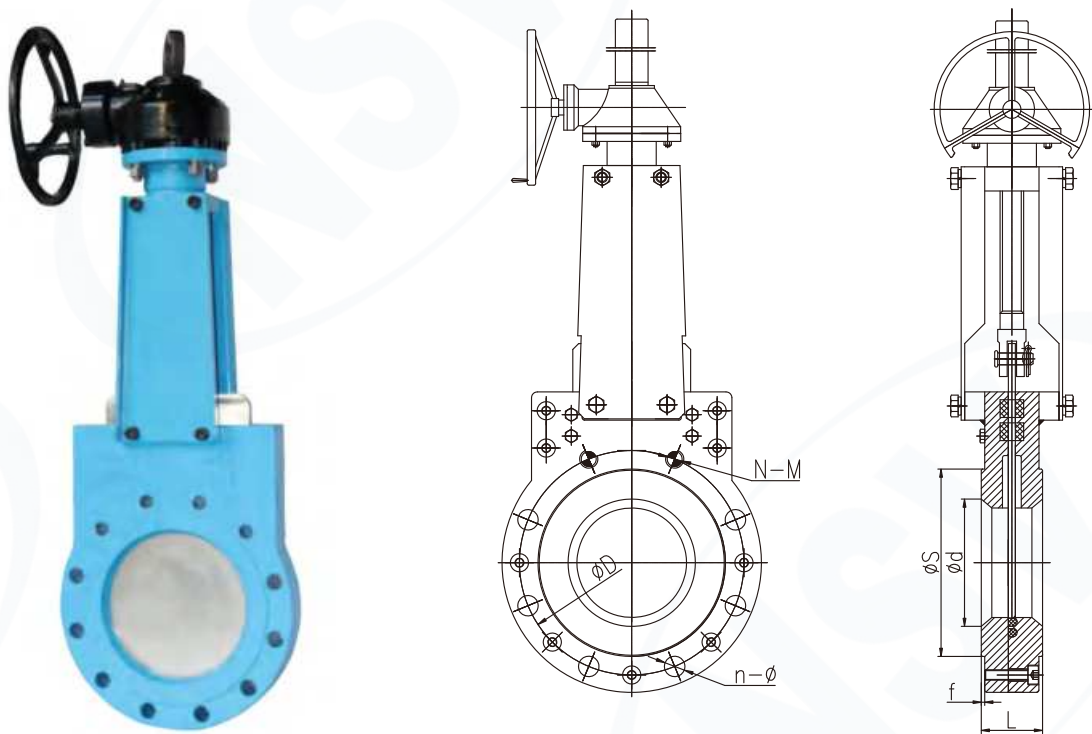
DN	d	L	D	S	f	N-M	n-Φ	Do	H
50	50	43	125	92.1	2	2-M16	2-Φ18	200	413
65	63	46	145	105	2	2-M16	2-Φ18	200	435
80	76	46	160	127	2	2-M16	6-Φ18	200	465
100	100	52	180	157	2	2-M16	6-Φ18	200	504
125	125	56	210	176	2	2-M16	6-Φ18	300	565
150	150	57	240	192	2	2-M20	6-Φ22	300	715
200	200	60	295	258	2	2-M20	6-Φ22	300	809
250	250	70	350	312	2	4-M20	8-Φ22	350	997
300	300	78	400	356	2	4-M20	8-Φ22	350	1085
350	336	78	460	411	2	6-M20	10-Φ22	500	1277
400	387	102	515	460	2	6-M24	10-Φ26	500	1350

≥DN450 , please contact manufacture

Flange drilling: PN10/150LB/JIS 10K/AS 2129
Size range: NPS2-NPS32
Material: Stainless steel/GGG40/WCB



Flange Standard: PN10/PN16/PN25/PN40/PN64
Nominal Diameter: DN50-DN800
Body Material: CS/SS/Alloy
Operation Mode: Manual, Bevel gear



● Main dimensions

150LB

NPS	d	L	D	S	f	N-M(UNC)	n-Φ	H
2	50	43	120.7	92.1	2	2-5/8"-11	2-Φ19	405
2.5	63	46	145	105	2	2-5/8"-11	2-Φ19	440
3	76	46	152.4	127	2	2-5/8"-11	2-Φ19	482
4	100	52	190.5	157	2	2-5/8"-11	6-Φ19	543
5	125	56	215.9	176	2	2-3/4"-10	6-Φ22	630
6	150	56	241.3	192	2	2-3/4"-10	6-Φ22	717
8	200	60	298.5	258	2	2-3/4"-10	6-Φ22	879
10	250	68	362	312	2	4-7/8"-9	8-Φ26	1033
12	300	78	431.8	356	2	4-7/8"-9	8-Φ26	1170
14	336	78	476.3	411	2	4-1"-8	8-Φ29	1398
16	387	102	539.8	460	2	6-1"-8	10-Φ29	1525

≥NPS18 , please contact manufacturer

● Main dimensions

PN25

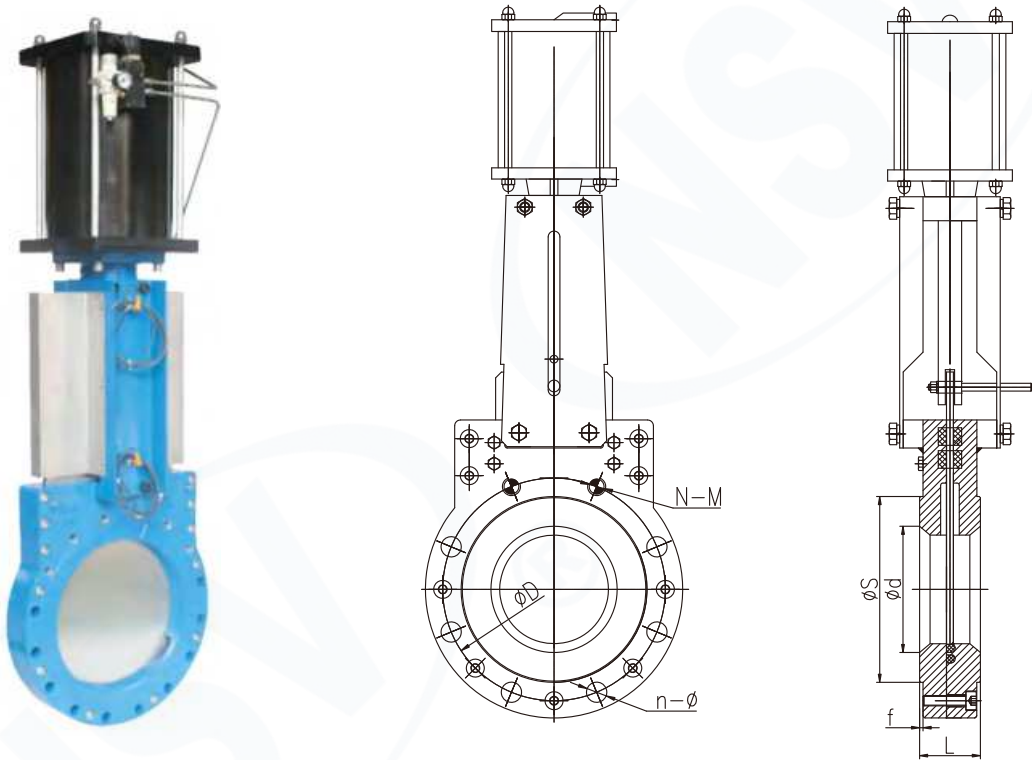
DN	d	L	D	S	f	N-M	n-Φ
50	52	43	125	99	2	2-M16	2-Φ18
65	65	46	145	118	2	2-M16	6-Φ18
80	78	64	160	132	2	2-M16	6-Φ18
100	102	64	190	156	2	2-M20	6-Φ18
125	125	70	220	184	2	2-M24	6-Φ22
150	152	76	250	211	2	2-M24	6-Φ26
200	202	89	310	274	2	4-M24	8-Φ26
250	252	114	370	330	2	4-M27	8-Φ30
300	304	114	430	389	2	6-M27	10-Φ30
350	338	127	490	448	2	6-M30	10-Φ33
400	390	140	550	503	2	6-M33	10-Φ36

≥DN450 , Please inquire for details

Two-piece high-pressure knife gate valve (ANSI)

GKJ643

Flange Standard: 150LB/300LB/600LB
Nominal Diameter: DN50-DN800
Body Material: CS/SS/Alloy
Operation Mode: Pneumatic



Main dimensions

150LB

NPS	d	L	D	S	f	N-M(UNC)	n-Φ
2	52	70	120.7	92	2	2-5/8"-11	2-Φ19
2.5	65	102	139.7	105	2	2-5/8"-11	2-Φ19
3	78	102	152.4	123	2	2-5/8"-11	2-Φ19
4	102	105	190.5	157	2	2-5/8"-11	6-Φ19
5	125	64	215.9	178	2	2-3/4"-10	6-Φ22
6	152	64	241.3	192	2	2-3/4"-10	6-Φ22
8	202	73	298.5	258	2	2-3/4"-10	6-Φ22
10	252	79	362	312	2	4-7/8"-9	8-Φ26
12	304	83	431.8	356	2	4-7/8"-9	8-Φ26
14	338	92	476.3	411	2	4-1"-8	8-Φ29
16	390	95	539.8	460	2	6-1"-8	10-Φ29

≥NPS18, Please inquire for details

Heavy duty knife gate valves

GKS/GKW Series

Flange drilling: PN10/150LB/JIS 10K/AS 2129
Material: GGG40/CF8/CF8M/ALLOY
Operation: Manual, pneumatic, electric, hydraulic

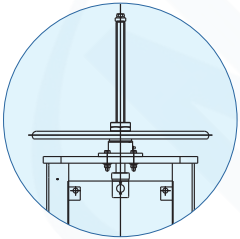
Features

- 100% Isolation, bubble-tight shut-off results in absolutely zero downstream leakage
- Double seated ,bidirectional flow and shut off
- No seat cavity where solids can collect
- No metal parts in contact with the flowing slurry
- Adaptable frame(Support yoke), can be modified to an air cylinder or bevel gear in field without welding.
- Open-closed lockout brackets for each size
- Long lasting lubrication

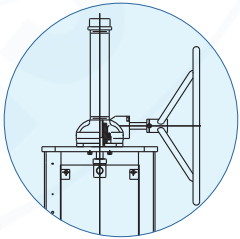
TECHNICAL DATA

Size 2"-16" Working pressure 150psi
Size 18"-28" Working pressure 90psi
Seat material: Natural gum rubber as standard, optional EPDM.
Knife material:SS316 as standard
Working temperature: NR 70°C , EPDM 110°C
Bigger size, please contact manufacturer.

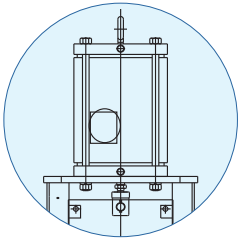
Driven way



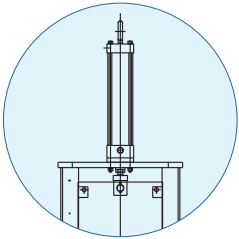
Handwheel



Bevel Gear



Air cylinder



Hydraulic actuator



GKS

GKW

SECONDARY SEAL

- Molded elastomer secondary seal
- Eliminates any leakage between knife and top of valve body in any orientation
- Use to lubricate the gate
- The seal is replaceable and can be changed while the valve is in the line

SPLASH CONTROL

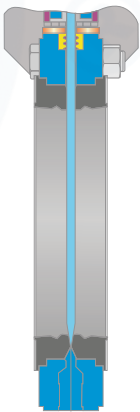
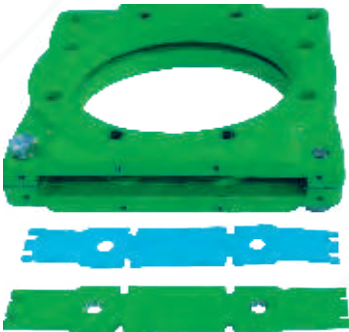
- Designed a drain plate at base of valve body
- Splash control is on optional -Drain plate

OPEN POSITION

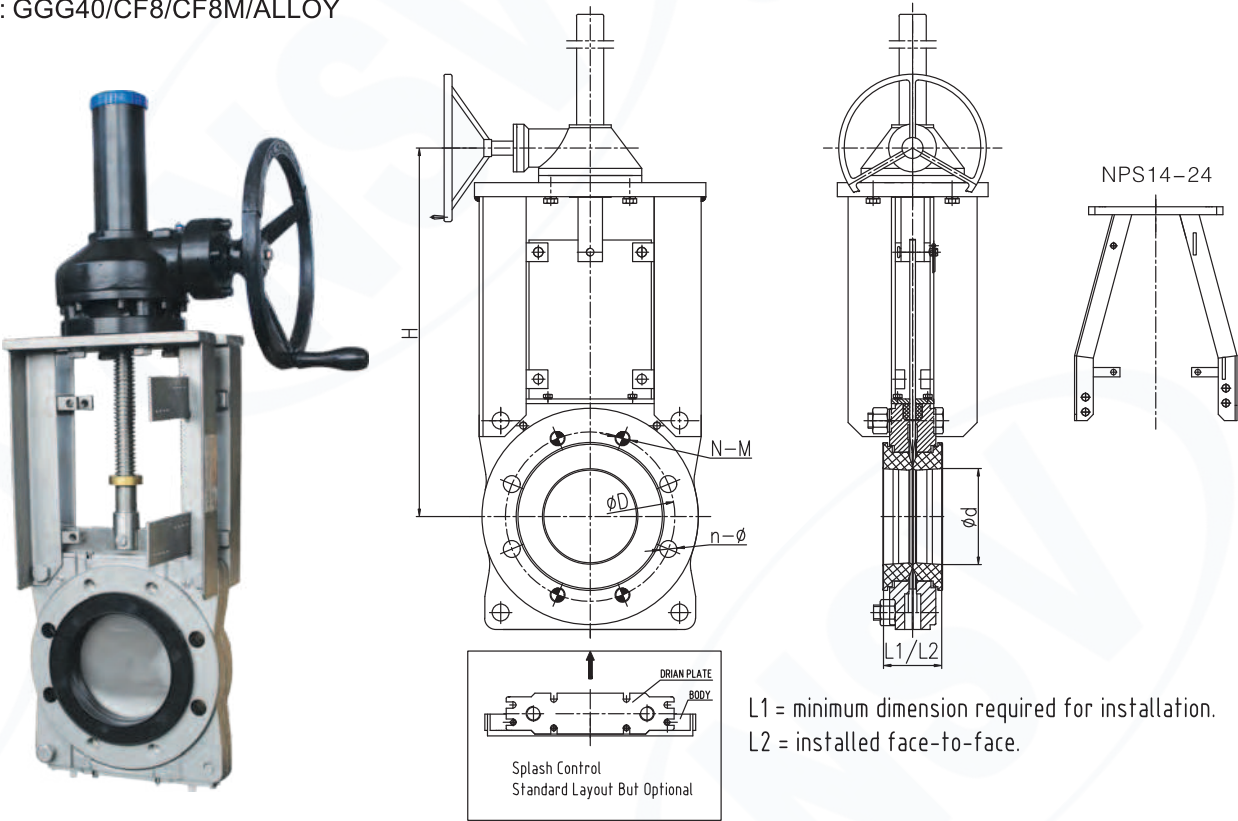
- Gate positioned above seals
- Tight fit between sleeves and the internal sleeve profile contain the line pressure
- Metal parts not in contact with slurry
- Unobstructed port area eliminates turbulence, minimizes pressure drop across valve
- No seat cavity where solids can collect and prevent full gate closure

CLOSED POSITION

- Gate travels through sleeves to provide blind flange shut off and expel solids allowing complete closure
- 100 % Isolation-bubble tight shut-off
- Controlled stroke prevents gate from penetrating too far, minimize stress on sleeves.



Flange drilling: PN10/150LB/JIS 10K/AS 2129
Size range: NPS2-NPS32
Material: GGG40/CF8/CF8M/ALLOY



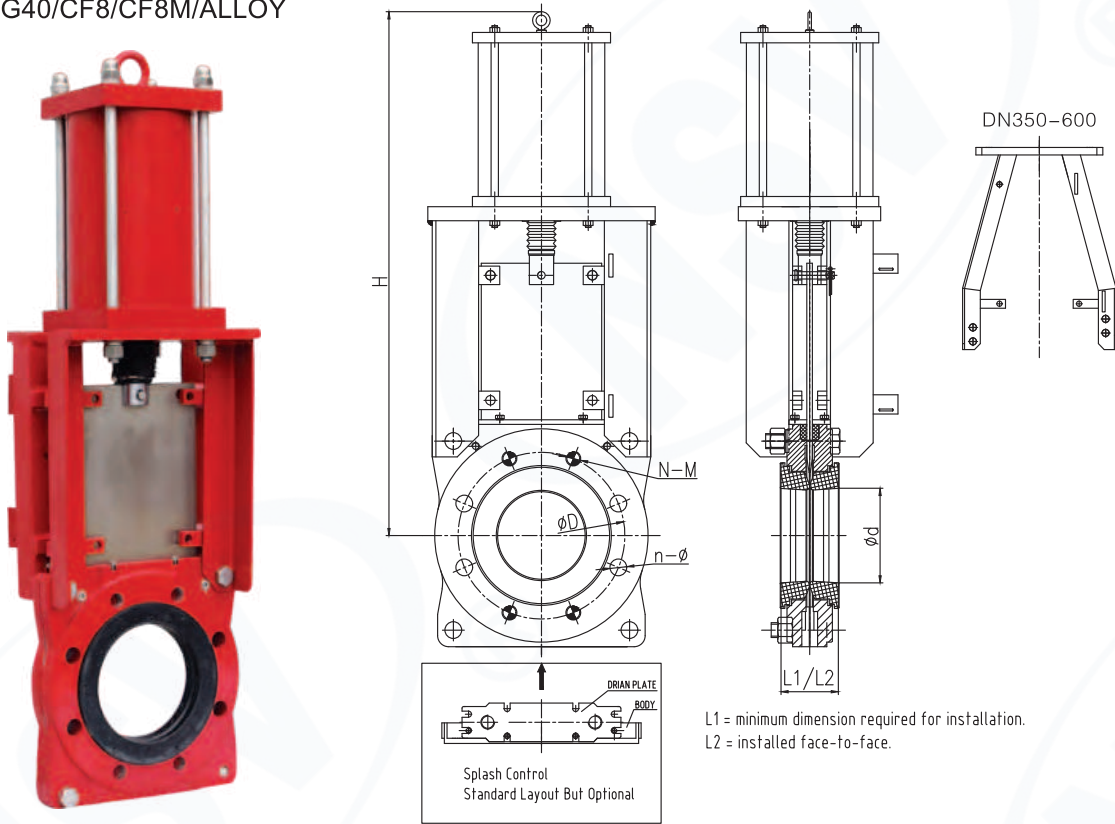
• Main dimensions

150Lb

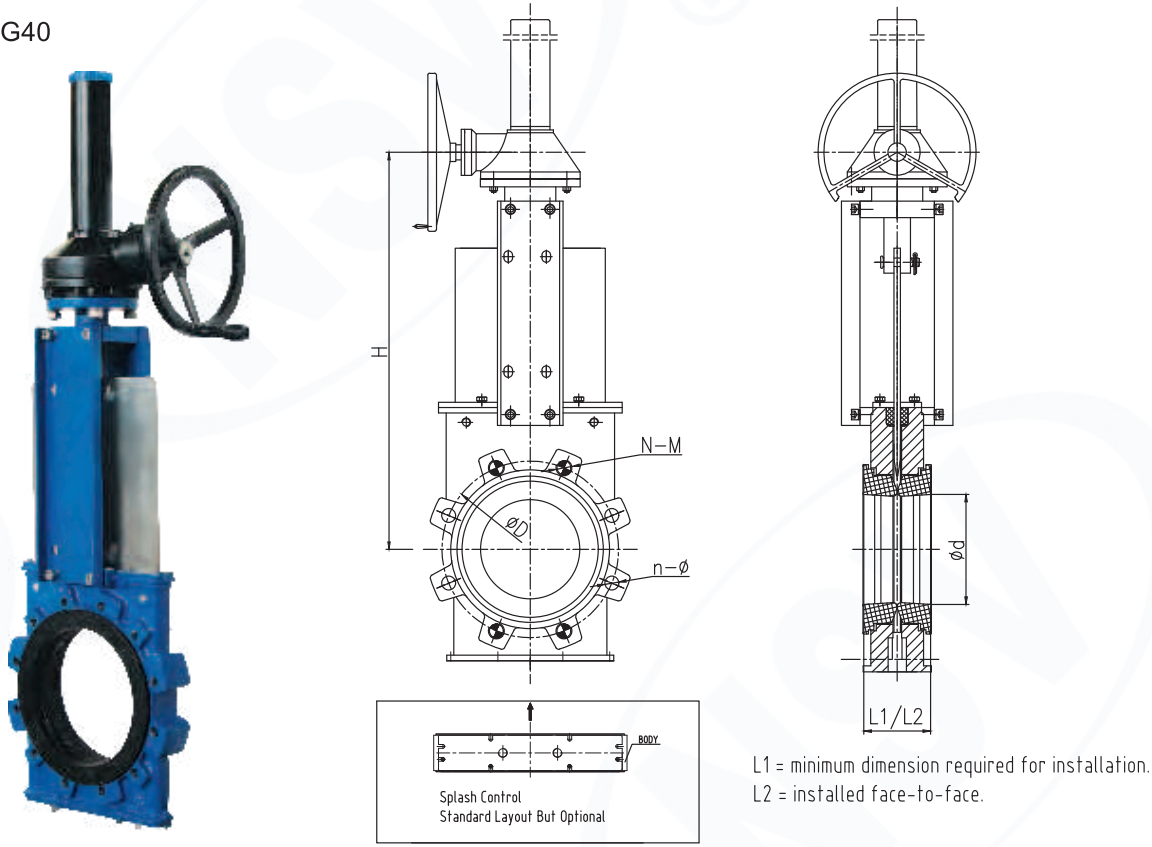
NPS	d	L1	L2	ΦD	N-M(UNC)	n-Φ	H
2	51	57	54	120.7	4-5/8"-11	/	325
2 1/2	64	57	54	139.7	4-5/8"-11	/	360
3	76	62	57	152.4	4-5/8"-11	/	397
4	102	62	57	190.5	4-5/8"-11	4-Φ19	445
5	127	65	60	215.9	4-3/4"-10	4-Φ22	490
6	154	68	63.5	241.3	4-3/4"-10	4-Φ22	550
8	204	81	76	298.5	4-3/4"-10	4-Φ22	631
10	254	83	79	362	8-7/8"-9	4-Φ26	738
12	296	89	83	432	8-7/8"-9	4-Φ26	865
14	344	89	83	476.3	8-1"-8	4-Φ29	950
16	390	102	95	540	12-1"-8	4-Φ29	1101
18	438	103	96	577.9	12-1 1/8"-7	4-Φ32	1267
20	492	131	121	635	16-1 1/8"-7	4-Φ32	1305
24	590	132	121	749.3	16-1 1/4"-7	4-Φ35	1480

≥NPS26 , please contact manufacturer

Flange drilling: PN10/150LB/JIS 10K/AS 2129
Size range: DN50-DN800
Material: GGG40/CF8/CF8M/ALLOY



Flange drilling: PN10/150LB/JIS 10K/AS 2129
Size range: DN50-DN800
Material: GGG40



● Main dimensions

PN10

DN	d	L1	L2	D	N-M	n-Φ	H
50	51	57	54	125	4-M16	/	455
65	64	57	54	145	4-M16	/	492
80	76	62	57	160	4-M16	4-Φ18	570
100	102	62	57	180	4-M16	4-Φ18	656
125	127	65	60	210	4-M16	4-Φ18	731
150	154	68	63.5	240	4-M20	4-Φ22	821
200	204	81	76	295	8-M20	/	955
250	254	83	79	350	8-M20	4-Φ22	1140
300	296	89	83	400	8-M20	4-Φ22	1317
350	344	89	83	460	12-M20	4-Φ22	1490
400	390	102	95	515	12-M24	4-Φ26	1670
450	438	103	96	565	16-M24	4-Φ26	1840
500	492	131	121	620	16-M24	4-Φ26	1945
600	590	132	121	725	16-M27	4-Φ30	2225

≥DN650 , please contact manufacture

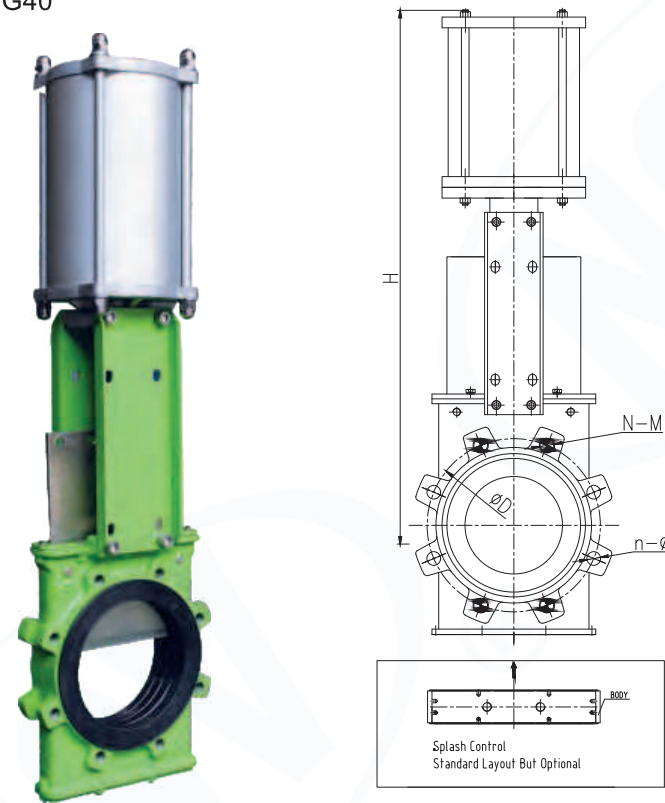
● Main dimensions

PN10

DN	d	L1	L2	D	N-M	n-Φ	H
50	51	57	54	125	4-M16	/	/
65	64	57	54	145	4-M16	/	/
80	76	62	57	160	4-M16	4-Φ18	397
100	102	62	57	180	8-M16	/	440
125	127	65	60	210	8-M16	/	490
150	154	68	63.5	240	8-M20	/	550
200	204	81	76	295	8-M20	/	631
250	254	83	79	350	12-M20	/	738
300	296	89	83	400	12-M20	/	865
350	344	89	83	460	16-M20	/	950
400	390	102	95	515	12-M24	4-Φ26	1095
450	438	103	96	565	16-M24	4-Φ26	1267
500	492	131	121	620	16-M24	4-Φ26	1320
600	590	132	121	725	16-M27	4-Φ30	1495

≥DN650 , please contact manufacture

Flange drilling: PN10/150LB/JIS 10K/AS 2129
Size range: NPS2-NPS32
Material: GGG40



L1 = minimum dimension required for installation.
L2 = installed face-to-face.

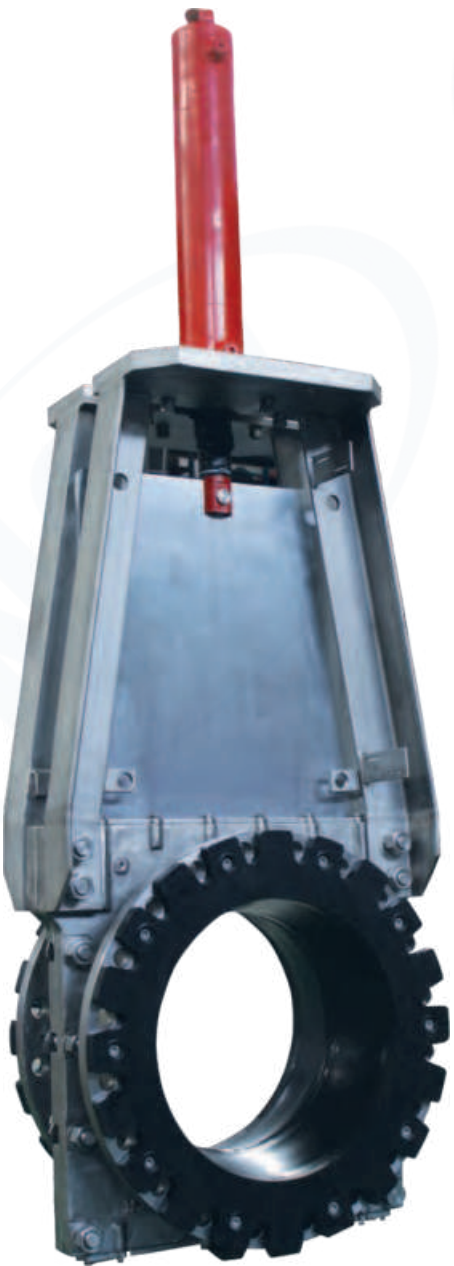
Flange drilling: PN10/150LB/JIS 10K/AS 2129
Material: GGG40/CF8/CF8M/ALLOY
Operation: Manual, pneumatic, electric, hydraulic

Features

- Valve meets abrasion, corrosion working condition
- Flange ends
- Removable sleeves
- Open-closed lockout brackets for each size
- Dust cover as a standard available at pneumatic or hydraulic operation
- Epoxy powder coating-Fusion bonded paint

Technical Data

Size 2"-24" Working pressure 100psi
Size 26" above Working pressure 75psi
Knife material:SS316 as standard
Seat material: Natural gum rubber as standard, optional EPDM.
Working temperature: NR 70°C , EPDM 110°C
Bigger size, please contact manufacturer.



GKA

Main dimensions

150LB

NPS	d	L1	L2	ΦD	N-M(UNC)	n-Φ	H
2	51	57	54	120.7	4-5/8"-11	/	455
2 1/2	64	57	54	139.7	4-5/8"-11	/	492
3	76	62	57	152.4	4-5/8"-11	/	570
4	102	62	57	190.5	4-5/8"-11	4-Φ19	656
5	127	65	60	215.9	4-3/4"-10	4-Φ22	731
6	154	68	63.5	241.3	4-3/4"-10	/	821
8	204	81	76	298.5	4-3/4"-10	/	955
10	254	83	79	362	12-7/8"-9	/	1140
12	296	89	83	432	12-7/8"-9	/	1342
14	344	89	83	476.3	12-1"-8	/	1490
16	390	102	95	540	12-1"-8	4-Φ29	1670
18	438	103	96	578	12-1 1/8"-7	4-Φ32	1910
20	492	131	121	635	16-1 1/8"-7	4-Φ32	2010
24	590	132	121	749.3	16-1 1/4"-7	4-Φ35	2295

≥NPS26" , please contact manufacturer

Flange Standard:

PN10/150LB/JIS 10K/AS 2129

Nominal Diameter: DN50-DN1000

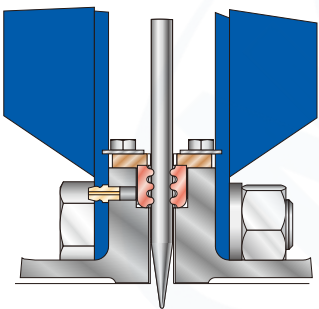
Body Material: GGG40/CF8/CF8M/ALLOY

Operation Mode: Manual, Pneumatic, Electric, Hydraulic

- Self-sealing valve seat
 - Can replace the gate plate online.
- Valve stem dust cover
 - Prevents the valve stem from being hit by external debris.
- Grease injection hole
 - Online greasing for easy maintenance.
- Movable valve seat
 - Makes valve seat replacement quick and convenient, no professional operation required.
- Locking block
 - Locks when the valve is fully open or fully closed to prevent misoperation.
- Anti-corrosion coating
 - Epoxy baked enamel coating.
- Technical Data
 - Size Range: DN50 to DN600
 - Rated Pressure: 6.9 bar (100 Psi)
 - Size Range: DN650 to DN1000
 - Rated Pressure: 5.2 bar (75 Psi)
 - Seal Sleeve Material: Natural rubber as standard
 - Temperature Range: Standard seal liner rated temperature is 70 °C
 - Other suitable rubber seals can reach up to 200 °C
- For larger diameters, please consult the factory.

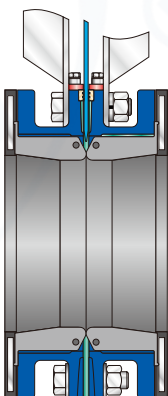


GKA Series



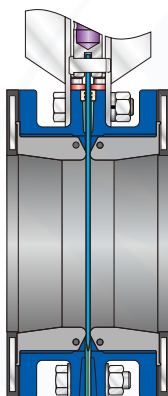
- Equipped with a secondary seal, it can effectively prevent medium leakage.
- The secondary seal is an integrally molded rubber strip with no leakage points.
- The secondary seal has a grease storage groove, which is beneficial for valve lubrication.
- The secondary seal is equipped with three scraper rubbers, effectively removing impurities remaining on the gate plate.

Turn on location



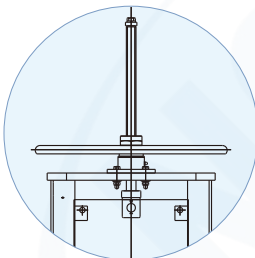
- The valve's internal cavity is fully enclosed, making it as durable and wear-resistant as a rubber tube.
- No metal components come into contact with the fluid.
- The valve plate is positioned above the valve seat to prevent long-term erosion by the medium.
- There are no interfering flow channels, which eliminates turbulence and reduces valve seat wear.
- The valve seat and internal cavity have no stagnant areas, preventing medium accumulation and ensuring the gate plate closes properly.

Disable location

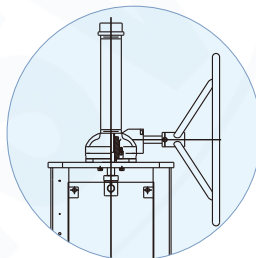


- The valve plate is inserted along the space between the two valve seats, forming a blind plate-type seal, and squeezing out solid particles between the gaps.
- Zero leakage of the valve.
- The double-seat design ensures bidirectional sealing of the valve.

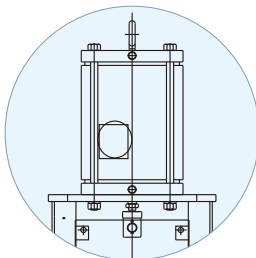
● Drive mode



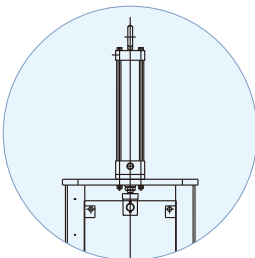
Handwheel



Bevel gear



Pneumatic



Hydraulic

Manual Flanged Slurry Valve

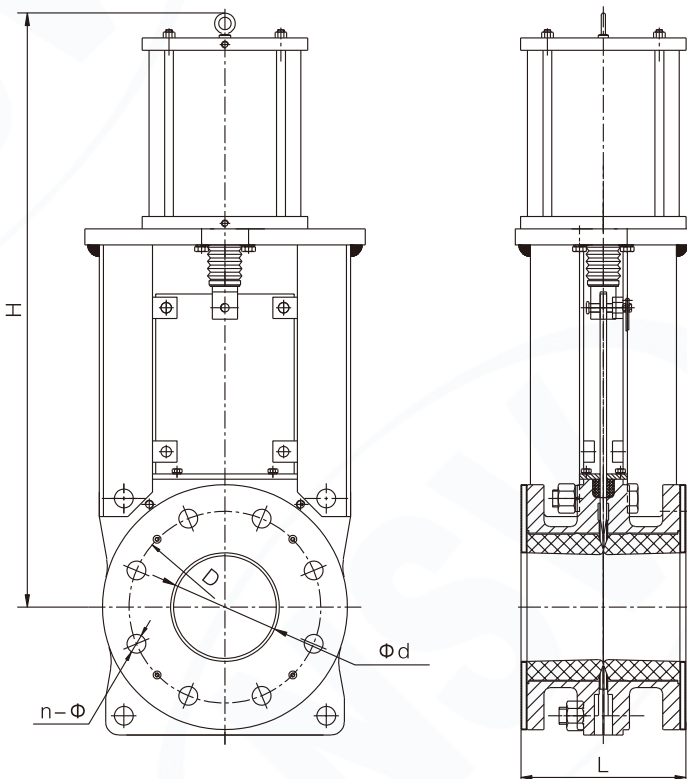
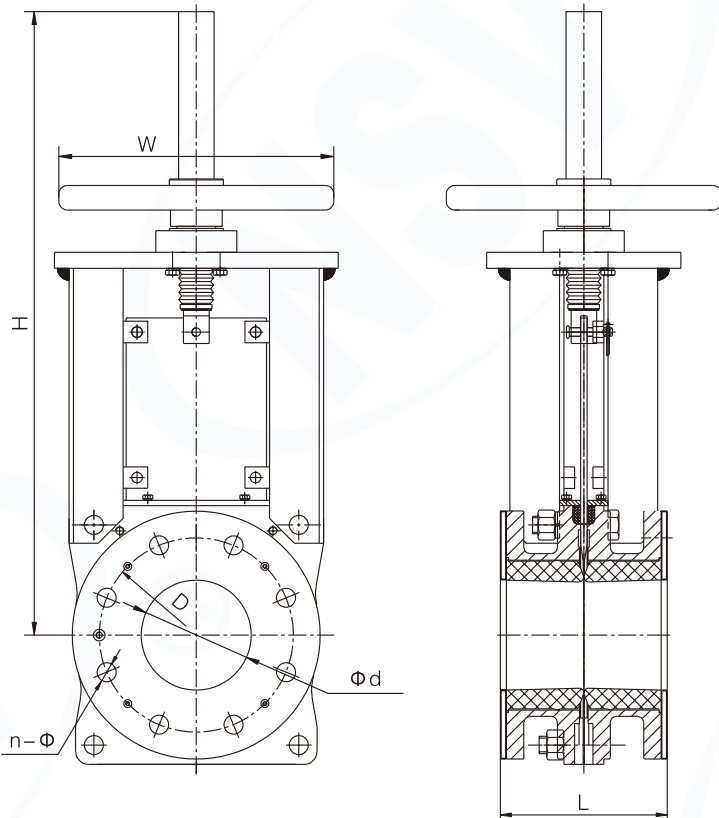
GKA43

Pneumatic Flanged Slurry Valve

GKA643

Flange Standard: PN10/150LB/JIS 10K/AS2129
Nominal Diameter: DN50-DN1000
Body Material: CS/DI/SS/SPM
Operation Mode:Manual,Bevel gear

Flange Standard: PN10/150LB/JIS 10K/AS2129
Nominal Diameter: DN50-DN800
Body Material: CS/DI/SS/SPM
Operation Mode: Pneumatic



Main dimensions						PN10
DN	Φd	L	D	n-Φ	W	H
50	51	175	125	4-Φ18	Φ300	405
65	60	175	145	4-Φ18	Φ300	450
80	71	175	160	8-Φ18	Φ300	515
100	98.5	175	180	8-Φ18	Φ300	597
125	122	178	210	8-Φ18	Φ300	650
150	148	178	240	8-Φ22	Φ400	770
200	197	184	295	8-Φ22	Φ400	875
250	246	226	350	12-Φ22	Φ500	1060
≥DN300, Please inquire for details						

Main dimensions						150LB
NPS	Φd	L	D	n-Φ	H	
2	51	175	120.7	4-Φ18	455	
2 1/2	60	175	139.7	4-Φ18	492	
3	71	175	152.4	4-Φ18	570	
4	98.5	175	190.5	8-Φ18	661	
5	122	178	215.9	8-Φ18	731	
6	148	178	241.3	8-Φ22	821	
8	197	184	298.5	8-Φ22	955	
10	246	226	362	12-Φ26	1140	
12	292	257	431.8	12-Φ26	1342	
14	336	257	476.3	12-Φ29.5	1490	
16	375	279	539.8	16-Φ29.5	1690	
≥NPS18, Please inquire for details						

Flange Standard:
PN16/PN25/PN40/PN64/150LB/300LB/600LB
Nominal Diameter: DN50-DN900
Body Material: WCB/CF8/CF8M/Alloy
Operation Mode: Manual, Pneumatic, Electric, Hydraulic

- Self-seating SeatGate can be replaced online.
- Stem Dust CoverPrevents the valve stem from splashing of external foreign matters.
- Grease FittingOnline greasing, easy for maintenance.
- Floating Valve SeatQuick and convenient seat replacement, no professional personnel required.
- Locking BlockLocks the valve at fully open or fully closed position to avoid misoperation.
- Anti-corrosion CoatingEpoxy baking finish coating.

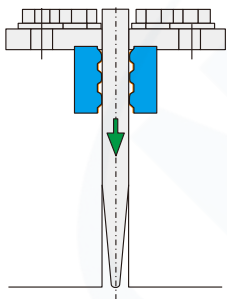
Technical Data
GKF Series Standard Type
Size Range: DN50 to DN900
Rated Pressure: 20bar (300Psi)
Sleeve Material: Natural rubber as standard configuration

GKF-HP Series Standard Type
Size Range: DN50 to DN900
Rated Pressure: 51bar (740Psi)
Sleeve Material: Natural rubber as standard configuration

Temperature Range:Rated temperature of standard sealing liner: 70°C. Up to 200°C with optional special rubber seals
For larger sizes, please consult the factory.



GKF Series



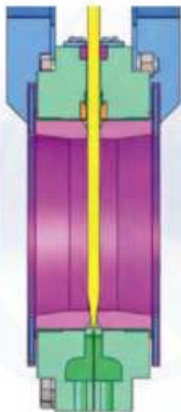
- Built-in secondary seal design effectively prevents medium external leakage.
- The secondary seal is an integrally molded rubber strip with no leakage points.
- The secondary seal is equipped with a grease storage groove for convenient valve lubrication and maintenance.
- Fitted with three rubber wiper strips to effectively scrape off impurities attached to the gate.

Turn on location



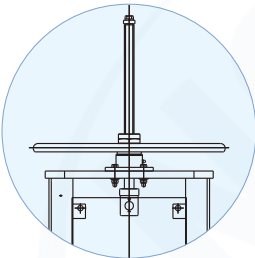
- The valve inner cavity is fully enclosed, delivering durable wear resistance like a rubber hose.
- No metal components come into contact with the fluid.
- The gate is positioned above the valve seat, preventing long-term erosion by the medium.
- The non-disturbance flow channel eliminates turbulence and reduces valve seat wear.
- There is no slag accumulation area on the valve seat and inner cavity, avoiding medium deposition and ensuring the gate closes fully and tightly.

Disable location

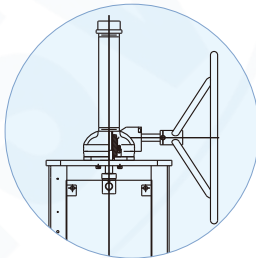


- The valve plate is inserted between the two valve seats, forming a blind plate type seal, and extrudes solid particles between the gaps.
- The valve has zero leakage.
- The double valve seat design ensures bidirectional sealing of the valve.

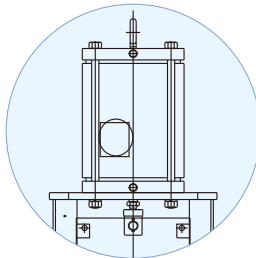
Drive mode



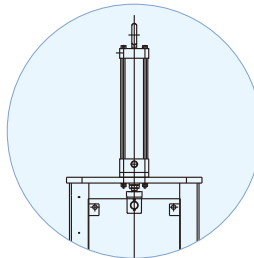
Handwheel



Bevel gear



Pneumatic



Hydraulic

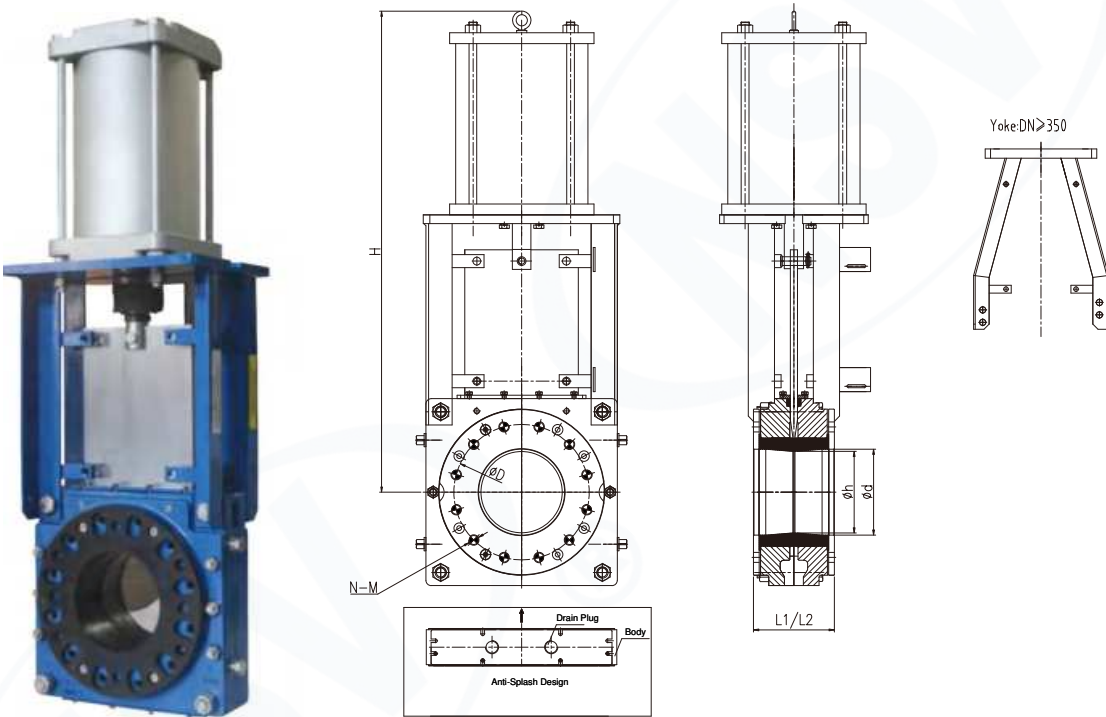
Pneumatic High-Pressure Slurry Valve

GKF 643

Hydraulic High-Pressure Slurry Valve

GKF 774

Flange Standard: PN16/PN25/PN40/PN64/150LB/300LB/600LB
Nominal Diameter: DN50-DN900
Body Material: WCB/CF8/CF8M/Alloy
Operation Mode: Pneumatic

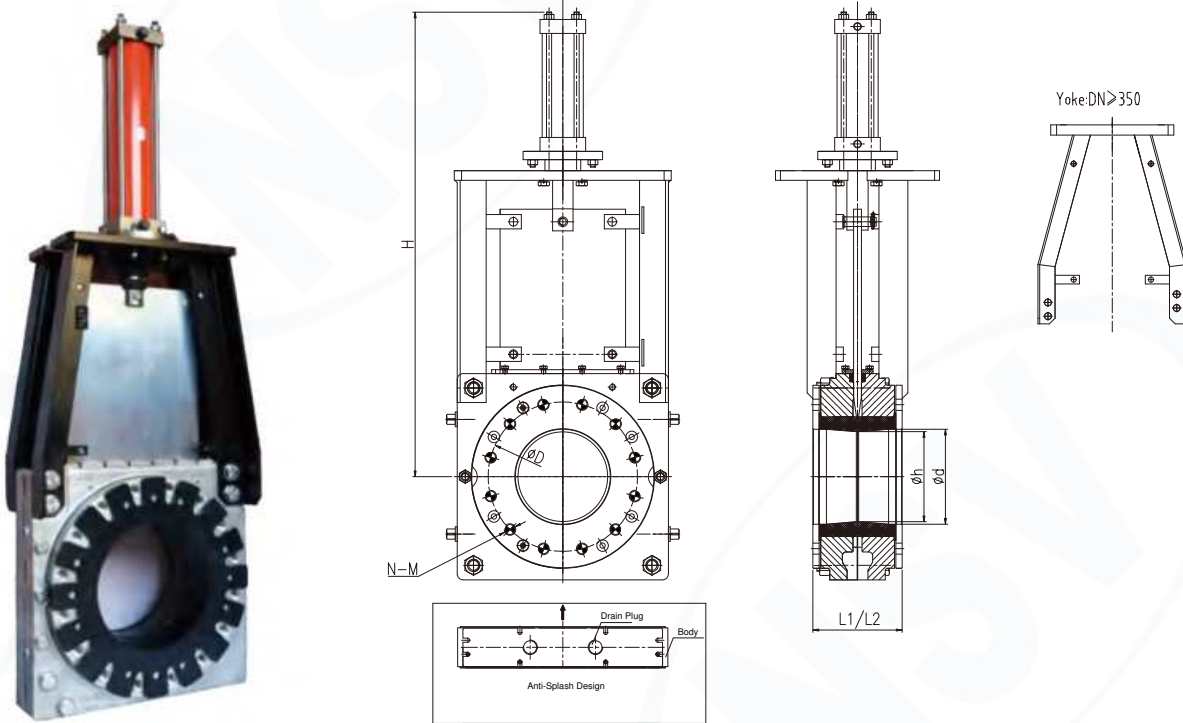


● Main dimensions

NPS	Φd	ΦH	L1	L2	ΦD	N-M(UNC)	H
3	71	61	179	175	152.4	4-5/8"-11	613
4	98	85	179	176	190.5	8-5/8"-11	697
6	148	146	191	185	241.3	8-3/4"-10	812
8	197	187	185	179	298.5	8-3/4"-10	1077
10	249	231	232	226	362.0	12-7/8"-9	1210
12	292	273	264	258	431.8	12-7/8"-9	1320
14	337	317	267	260	476.3	12-1"-8	1595
16	375	362	286	279	539.8	16-1"-8	1726
18	431	381	328	321	578.0	16-1 1/8"-7	1820
20	469	420	374	367	635.0	20-1 1/8"-7	2094
24	576	538	377	370	749.3	20-1 1/4"-7	2383
28	635	597	386	378	863.6	28-1 1/4"-7	2635
30	736	679	421	413	977.9	28-1 1/2"-6	2700
36	889	810	480	472	1085.8	32-1 1/2"-6	3120

Note: L1 = length before installation, L2 = length after installation

Flange Standard: PN16/PN25/PN40/PN64/150LB/300LB/600LB
Nominal Diameter: DN50-DN900
Body Material: WCB/CF8/CF8M/Alloy
Operation Mode: Hydraulic



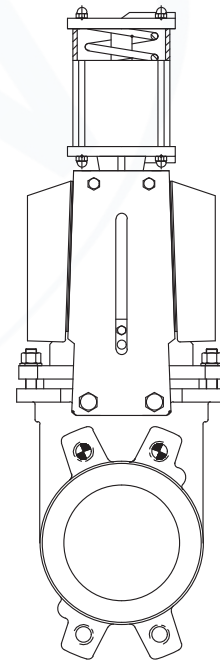
● Main dimensions

NPS	Φd	ΦH	L1	L2	ΦD	N-M(UNC)	H
3	71	61	179	175	152.4	4-5/8"-11	625
4	98	85	179	176	190.5	8-5/8"-11	807
6	148	146	191	185	241.3	8-3/4"-10	975
8	197	187	185	179	298.5	8-3/4"-10	1155
10	249	231	232	226	362.0	12-7/8"-9	1354
12	292	273	264	258	431.8	12-7/8"-9	1488
14	337	317	267	260	476.3	12-1"-8	1700
16	375	362	286	279	539.8	16-1"-8	1750
18	431	381	328	321	578.0	16-1 1/8"-7	2020
20	469	420	374	367	635.0	20-1 1/8"-7	2217
24	576	538	377	370	749.3	20-1 1/4"-7	2453
28	635	597	386	378	863.6	28-1 1/4"-7	2700
30	736	679	421	413	977.9	28-1 1/2"-6	3004
36	889	810	480	472	1085.8	32-1 1/2"-6	3494

Note: L1 = length before installation, L2 = length after installation

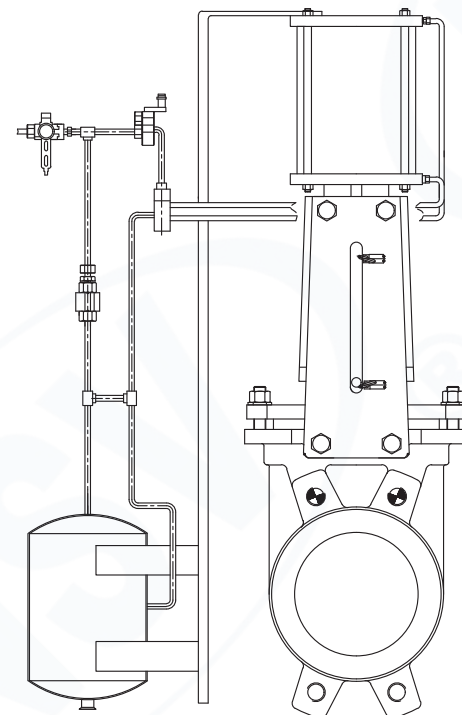
SINGLE ACTING (SPRING RETURN)

- This actuator (single acting cylinder) consists of:
 - Aluminium barrel and covers
 - Ductile Iron or carbon steel spring cap
 - Steel spring
 - piston rod
 - Nitrile coated steel piston
- Available from DN 50 to DN 200
- Supply pressure: min. 5 kg/cm² – max. 10 kg/cm²
- Options:
 - Fail open
 - Fail close



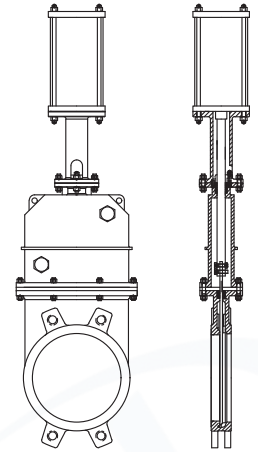
SINGLE ACTING (VOLUME RETURN)

- This safety system consists on: double acting pneumatic cylinder, volume tank and all the necessary elements according to the available options (solenoid valve, spool valve, ...)
- Available for all diameters
- Supply Pressure: min. 4.5 kg/cm² – max. 10 kg/cm²



BONNET

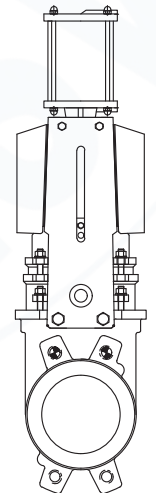
- Assures tight sealing to atmosphere.
- Reduces packing maintenance.



DOUBLE GLAND

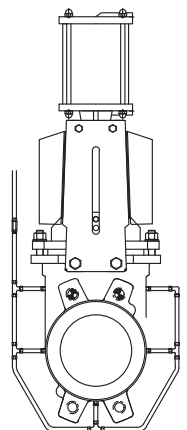
Double gland is developed for knife gate valves that are subject to severe operating conditions. It is often used on valves in junk traps and in difficult biomass applications.

The double gland consist of two glands where the lower one has a chamber with integrated purge ports. The first gland takes care of the main sealing function, while the second secures that no media reaches surrounding environment. Flushing between the gland boxes, or pressurising with air if it is dry media, keeps the gate clean and removes media that might have passed through the first gland box.

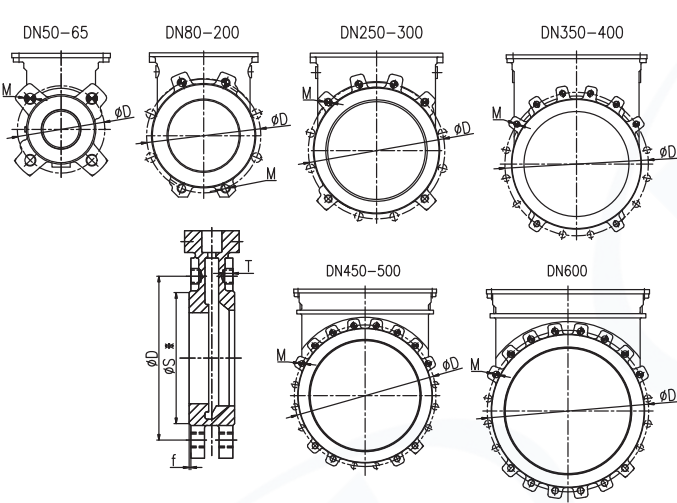


FLUSH PORTS

Allow for cleaning of solids trapped within the body cavities that can obstruct the flow or prevent the valve from closing. Depending on the process, purging can be made with air, steam, liquids, etc.



FLANGE AND BOLTING DETAILS OF PN10 GKU SERIES

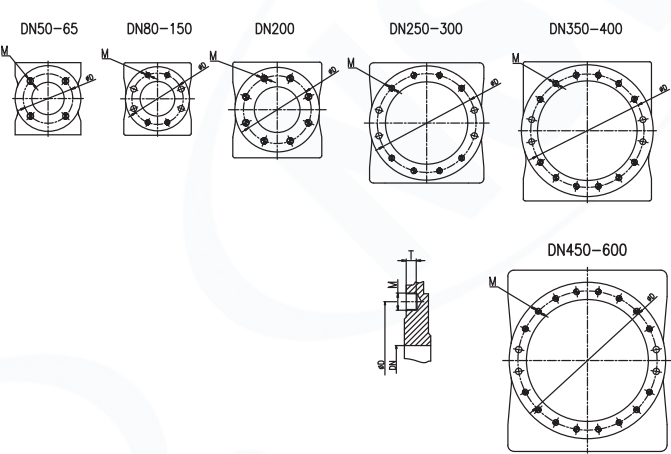


- Blind tapped bore holes
- Tapped through
- Through going bore
- Unthreaded hole

※: "S" is manufacturer data

DN	ΦD	ΦS	f	M	T				
50	125	92	2	4-M16	6	2	2	0	0
65	145	105	2	4-M16	6	2	2	0	0
80	160	127	2	4-M16	8	2	2	4	0
100	180	153	2	4-M16	8	2	2	4	0
125	210	182	2	4-M16	8	2	2	4	0
150	240	207	2	4-M20	10	2	2	4	0
200	295	260	2	4-M20	10	2	2	4	0
250	350	320	2	6-M20	15	4	2	6	0
300	400	369	2	6-M20	13	4	2	6	0
350	460	413	2	8-M20	20	6	2	8	0
400	515	470	2	8-M24	22	6	2	8	0
450	565	533	2	12-M24	22	8	4	8	0
500	620	573	2	12-M24	22	8	4	8	0
600	725	646	2	14-M27	22	8	6	6	0

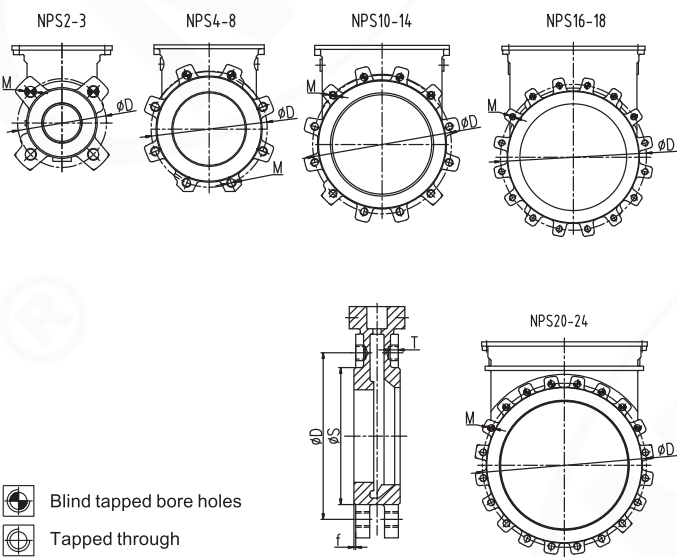
FLANGE AND BOLTING DETAILS OF PN10 GKS SERIES



- Blind tapped bore holes
- Tapped through
- Through going bore
- Unthreaded hole

DN	ΦD	M	T				
50	125	M16	11	4	0	0	0
65	145	M16	11	4	0	0	0
80	160	M16	10	4	0	0	4
100	180	M16	12	4	0	0	4
125	210	M16	10	4	0	0	4
150	240	M20	13	4	0	0	4
200	295	M20	15	8	0	0	0
250	350	M20	17	8	0	0	4
300	400	M20	17	8	0	0	4
350	460	M20	15	12	0	0	4
400	515	M24	18	12	0	0	4
450	565	M24	20	16	0	0	4
500	620	M24	27	16	0	0	4
600	725	M27	25	16	0	0	4

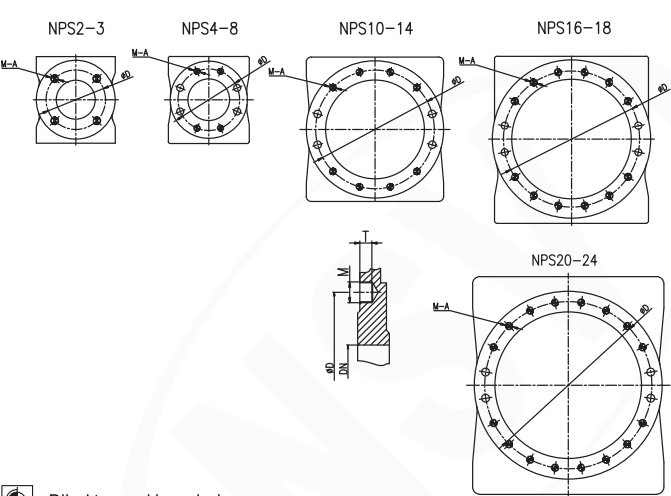
FLANGE AND BOLTING DETAILS OF 150LB GKU SERIES



- Blind tapped bore holes
- Tapped through
- Through going bore
- Unthreaded hole

NPS	ΦD	ΦS	f	M(UNC)	T				
2	120.7	92.1	2	4-5/8"-11	8	2	2	0	0
2.5	139.7	104.8	2	4-5/8"-11	8	2	2	0	0
3	152.4	127.0	2	4-5/8"-11	8	2	2	0	0
4	190.5	157.0	2	8-5/8"-11	9	2	6	0	0
5	215.9	186.0	2	8-3/4"-10	9	2	6	0	0
6	241.3	215.9	2	8-3/4"-10	9	2	6	0	0
8	298.5	270	2	8-3/4"-10	12	2	6	0	0
10	362.0	323.8	2	12-7/8"-9	12	4	8	0	0
12	431.8	381.0	2	12-7/8"-9	12	4	8	0	0
14	476.3	412.8	2	12-1"-8	14	4	8	0	0
16	539.8	469.9	2	16-1"-8	15	6	10	0	0
18	578.0	533.4	2	16-1 1/8"-7	15	6	10	0	0
20	635.0	584.0	2	20-1 1/8"-7	23	8	12	0	0
24	749.3	692.0	2	20-1 1/4"-7	23	8	12	0	0

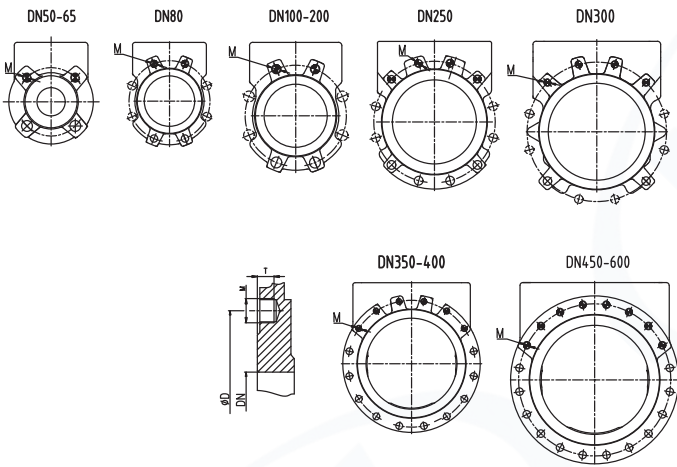
FLANGE AND BOLTING DETAILS OF 150LB GKS SERIES



- Blind tapped bore holes
- Tapped through
- Through going bore
- Unthreaded hole

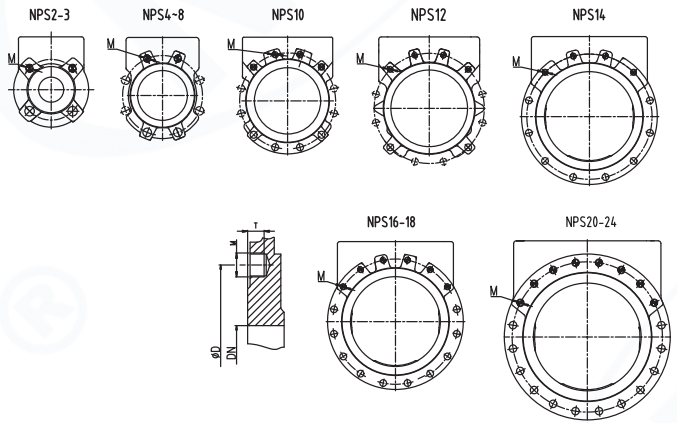
NPS	ΦD	M(UNC)	T				
2	120.7	4-5/8"-11	11	4	0	0	0
2.5	139.7	4-5/8"-11	11	4	0	0	0
3	152.4	4-5/8"-11	11	4	0	0	0
4	190.5	4-5/8"-11	11	4	0	0	4
5	215.9	4-3/4"-10	10	4	0	0	4
6	241.3	4-3/4"-10	13	4	0	0	4
8	298.5	4-3/4"-10	15	4	0	0	4
10	362	8-7/8"-9	17	8	0	0	4
12	432	8-7/8"-9	17	8	0	0	4
14	476.3	8-1"-9	14	8	0	0	4
16	570	12-1"-8	17	12	0	0	4
18	577.9	12-1 1/8"-7	18	12	0	0	4
20	635	16-1 1/8"-7	25	16	0	0	4
24	749.3	16-1 1/4"-7	25	16	0	0	4

FLANGE AND BOLTING DETAILS OF PN10 GKJ SERIES



DN	M	T	⊕	⊕	⊕	⊕
50	2-M16	9	2	0	0	2
65	2-M16	10	2	0	0	2
80	2-M16	12	2	0	4	2
100	2-M16	12	2	0	4	2
150	2-M20	13	2	0	4	2
200	2-M20	17	2	0	4	2
250	4-M20	19	4	0	4	4
300	4-M20	19	4	0	6	2
350	6-M20	19	6	0	0	10
400	6-M24	32	6	0	0	10
450	8-M24	35	8	0	0	12
500	8-M24	35	8	0	0	12
600	8-M27	40	8	0	0	12

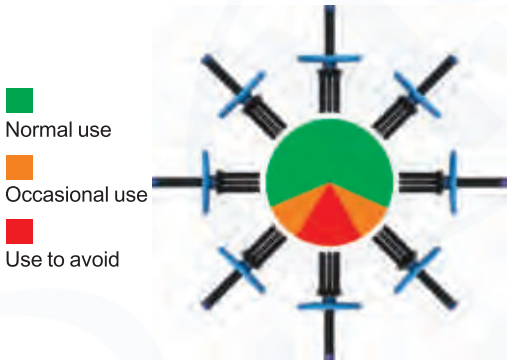
FLANGE AND BOLTING DETAILS OF 150LB GKJ SERIES



NPS	M	T	⊕	⊕	⊕	⊕
2	2-5/8"-11	9	2	0	0	2
2.5	2-5/8"-11	10	2	0	0	2
3	2-5/8"-11	12	2	0	0	2
4	2-5/8"-11	12	2	0	4	2
6	2-3/4"-10	13	2	0	4	2
8	2-3/4"-10	17	2	0	4	2
10	4-7/8"-9	19	4	0	4	4
12	4-7/8"-9	19	4	0	6	2
14	4-1"-8	20	4	0	0	8
16	6-1"-8	32	6	0	0	10
18	6-1 1/8"-7	35	6	0	0	10
20	8-1 1/8"-7	35	8	0	0	12
24	8-1 1/4"-7	40	8	0	0	12

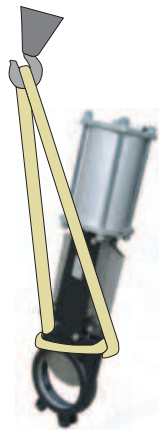
Valves positon

The valve can be assembled in any position, however we recommend suitable position.



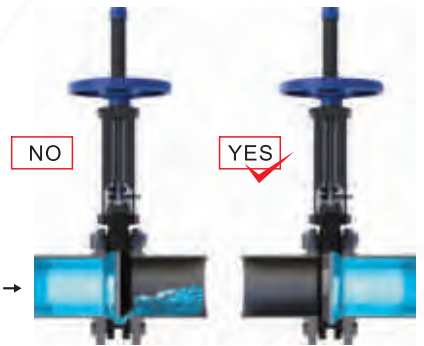
Handling

Please use lifting gear to move valve, it should be supported by two or more eyebolts screwed into the taper fixing holes in the valve body.



Knife gate valve assembling way

The unidirectional valve only could be assembled at correct directional followed by arrow mark on body.



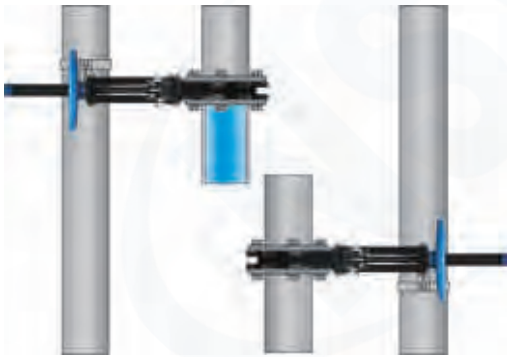
Installation

Make sure the internal cavities within the valve body are clean. Inspect the pipeline and mating flange.



Valve support

When valves are operated with heavy actuators in horizontal or tilting position.



Working pressure/Temperature

Maxi. Pressure
DN 50–250: 10bar DN 300–450: 7bar
DN 500–600: 4bar DN 700–900: 2bar
DN1000–1200: 1bar

Maxi. Temperature
EPDM 110°C、Viton 220°C
NBR110°C、PTFE150°C



Replacement of packing

Take old packing out
Put 3 layers of packing in the palce
Note that each joint of the packing should be in different places



Replacement of valve seat

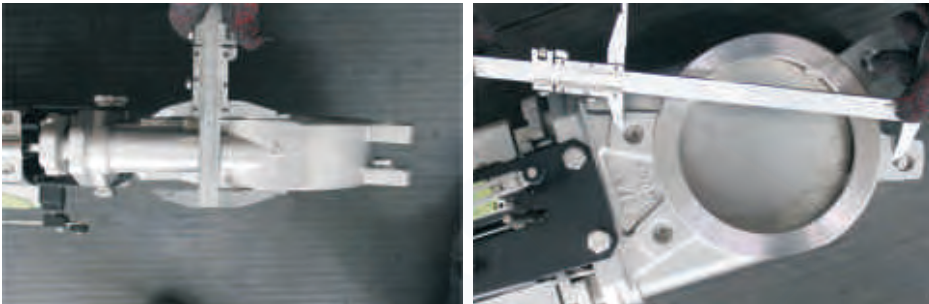


- A. Unscrewed packing gland and remove the gate
- B. Remove retainer ring
- C. Take the old EPDM ring out and clean it's place
- D. Put new EPDM ring in the place
- E. Put retainer on the EPDM ring
- F. Put gate back and packing in valve body
- G. Assemble the packing gland and tighten the screw

PMI Test for special material



Dimension checking



Hydrostatic test



Painting colour & thickness checking

