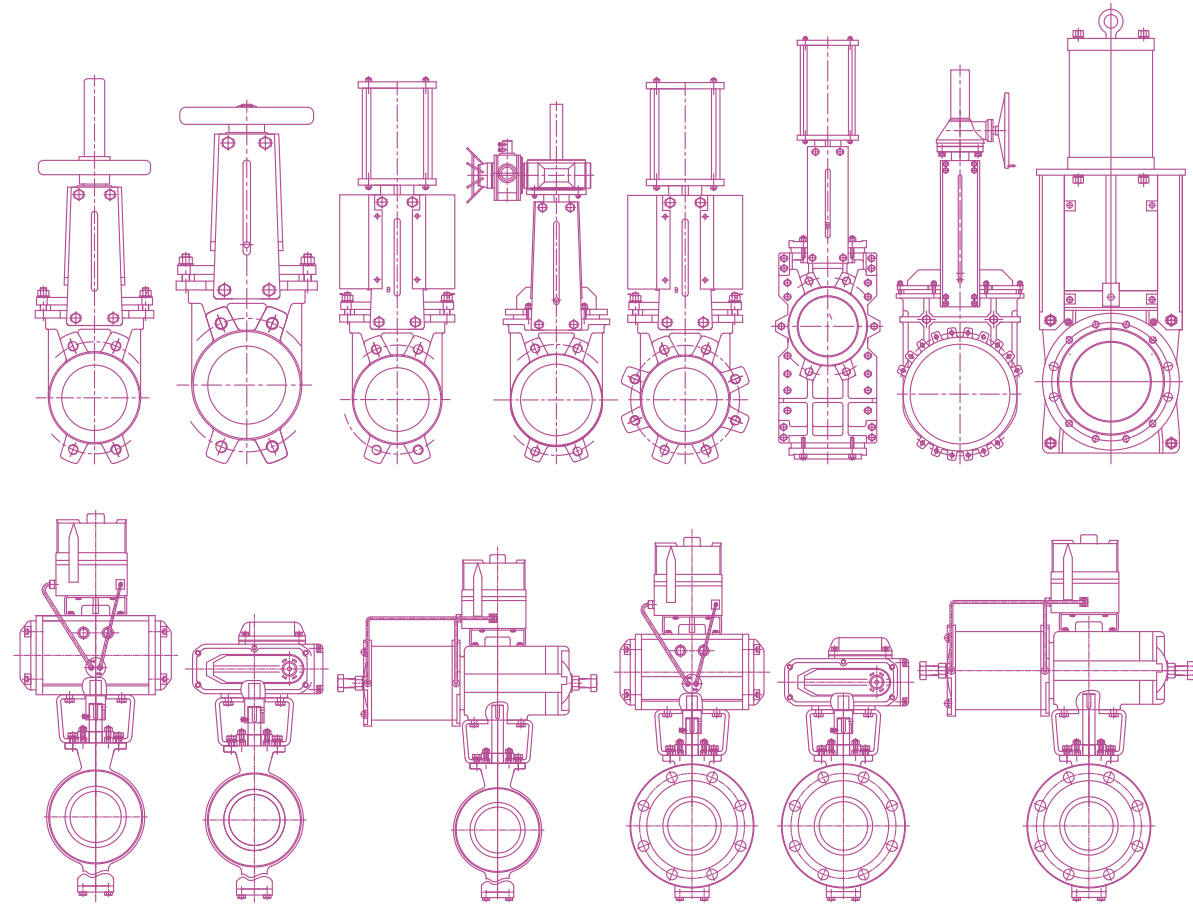
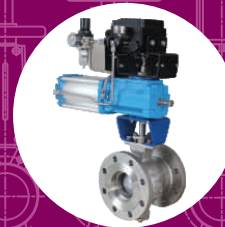
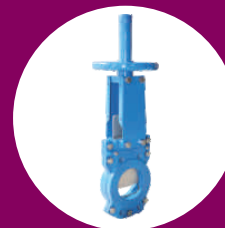




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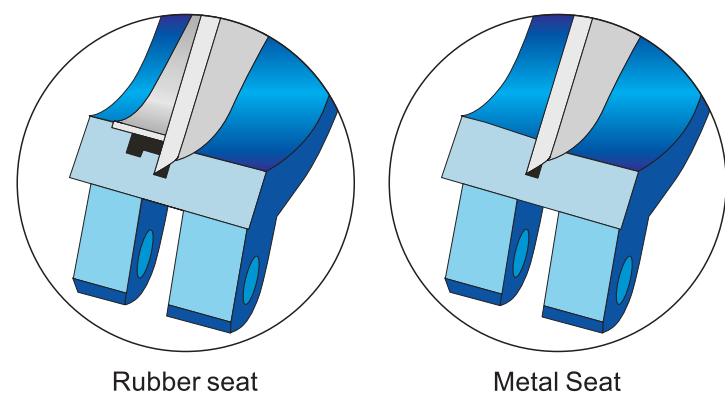
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Flange drillings: PN10/Class 150/JIS 10K/AS 2129
Materials: GGG40/CF8/CF8M/ALLOY
Operation: Manual, Pneumatic, Electric, Hydraulic

Features

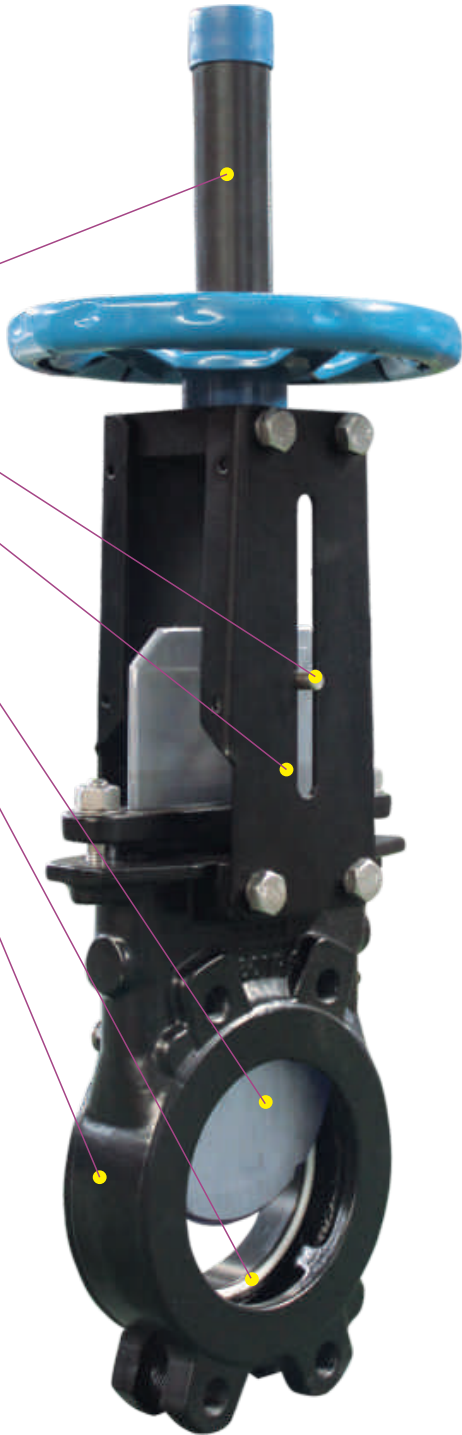
- Stem Protector
- Indicator
- Support yoke
- Knife
- Replacement seat
- Monoblock body with epoxy coating (Fusion bonded paint)

Sealing types



Rubber seat

Metal Seat



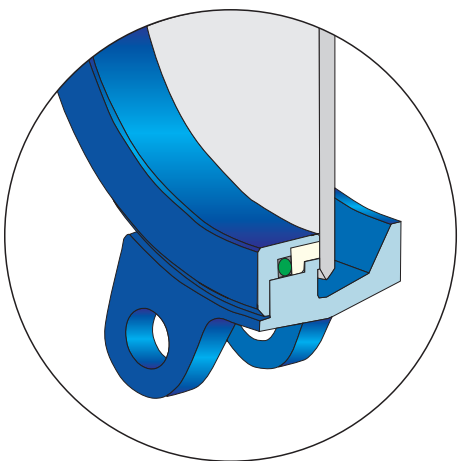
GKU

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

gate valve GKO can be used within a wide range of applications on both dry and wet media such as pulp stock up to 7% concentrations, sludge, biomass, ash, granulate and different kinds of waste.

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

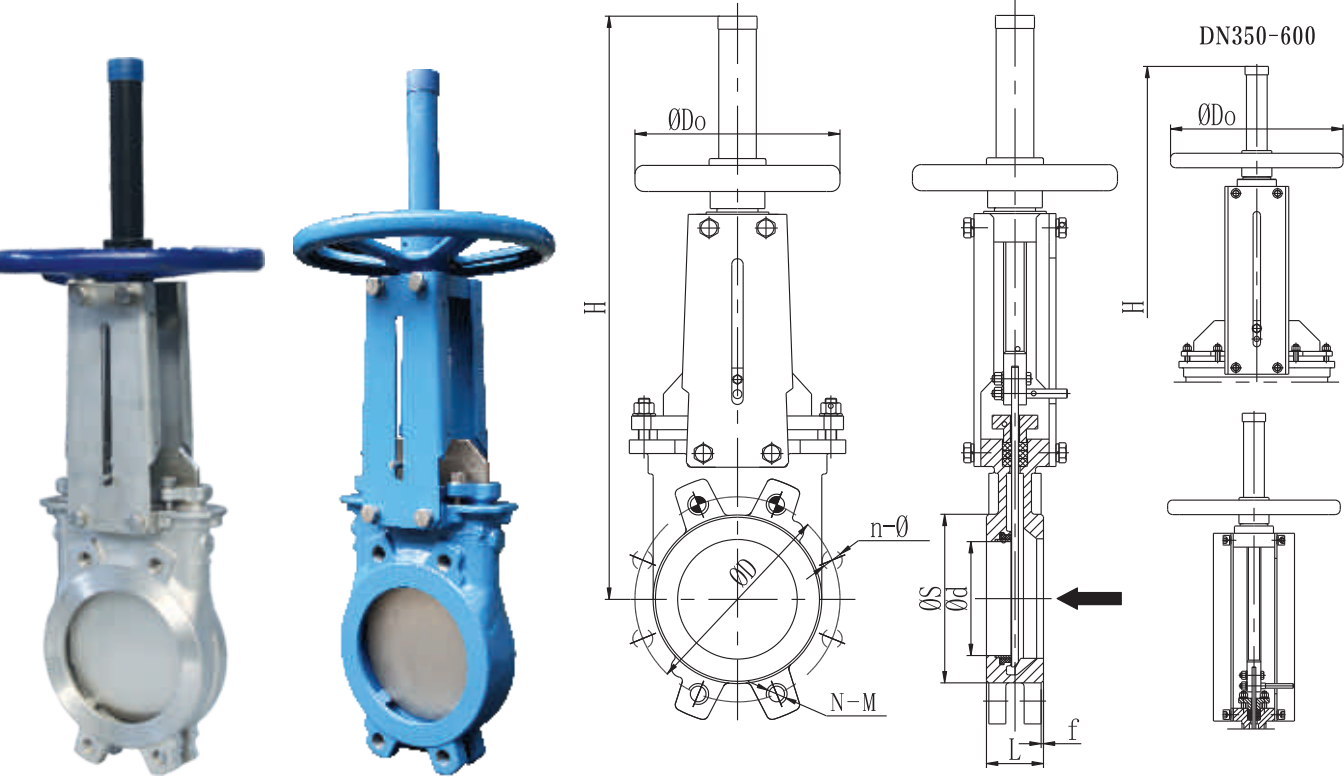
Rising stem Handwheel

GKU/GKO73

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.

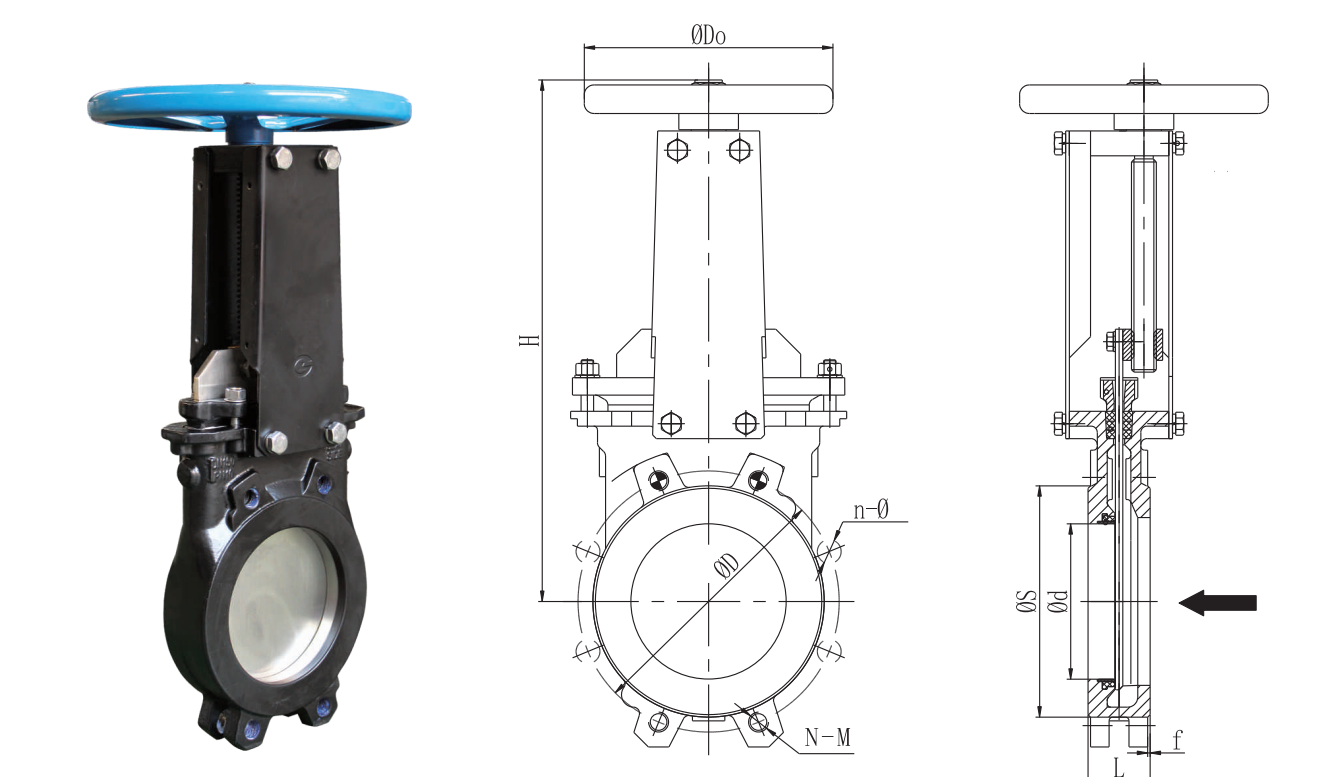
Non rising stem Handwheel

GKU/GKO75

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	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.

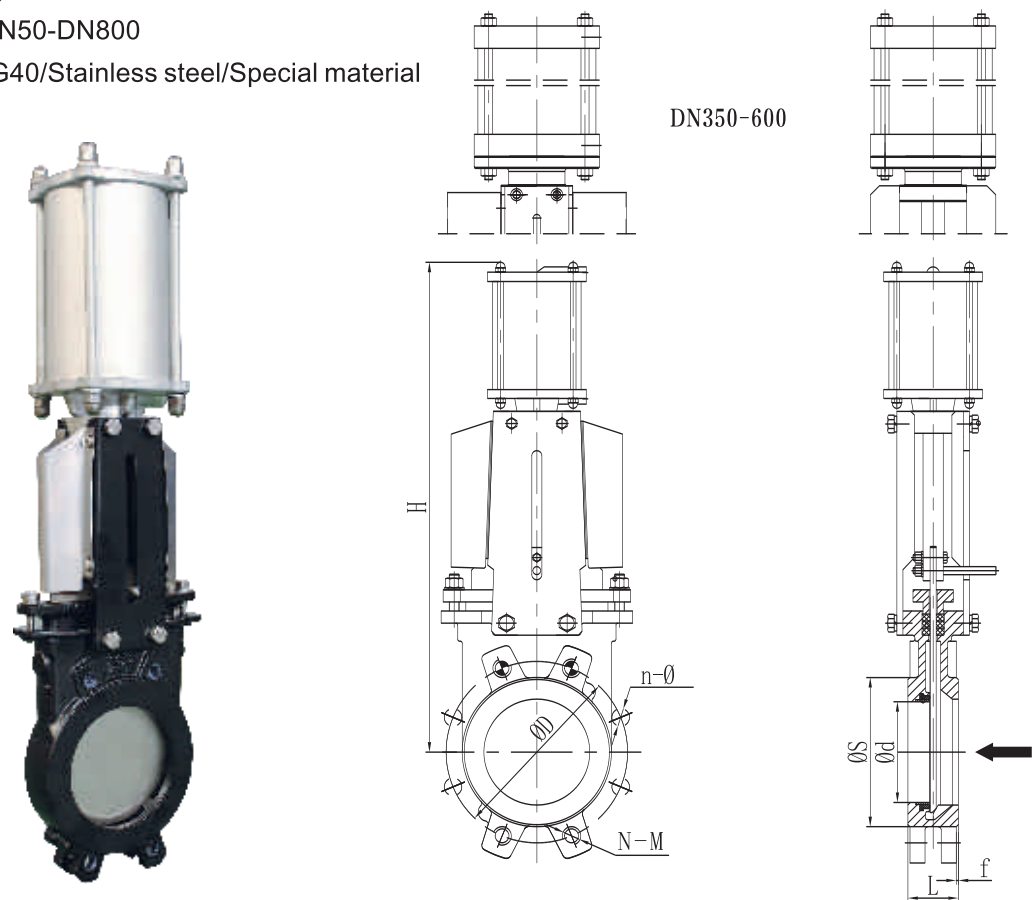
Pnuematical

GKU/GKO673

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

Size range: DN50-DN800

Material: GGG40/Stainless steel/Special material



● Main dimensions

PN10

DN	d	L	D	S	f	N-M	n-Ø	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.

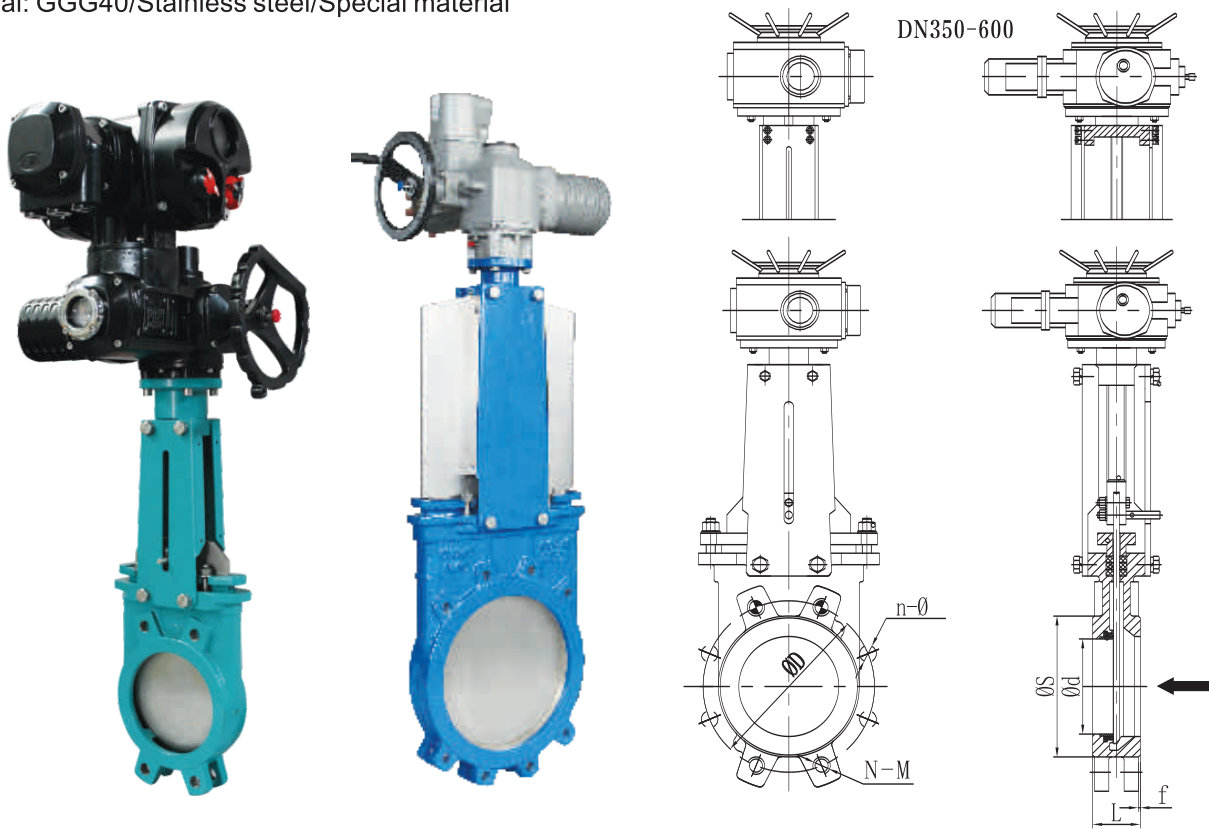
Electric actuated

GKU973/GKO973

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-Ø
※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

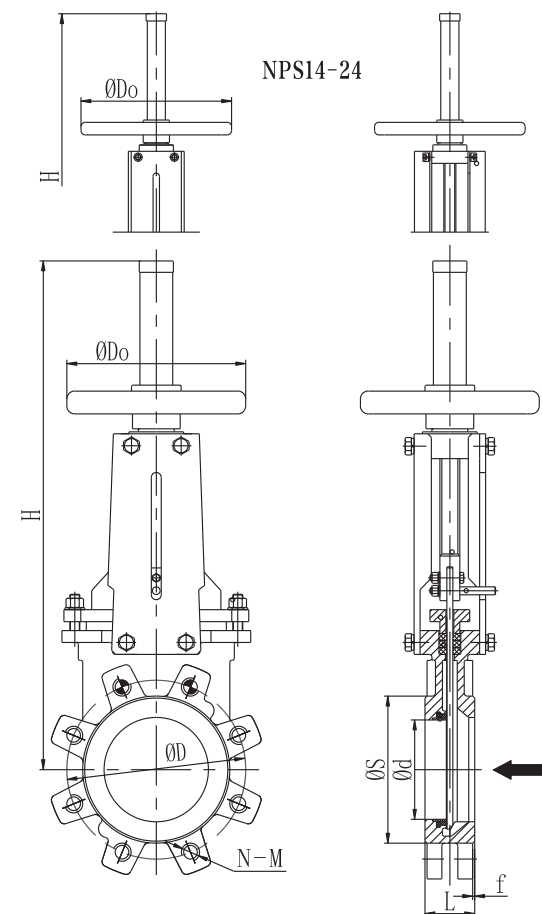
≥DN700 , please contact manufacturer

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



● Main dimensions

150LB

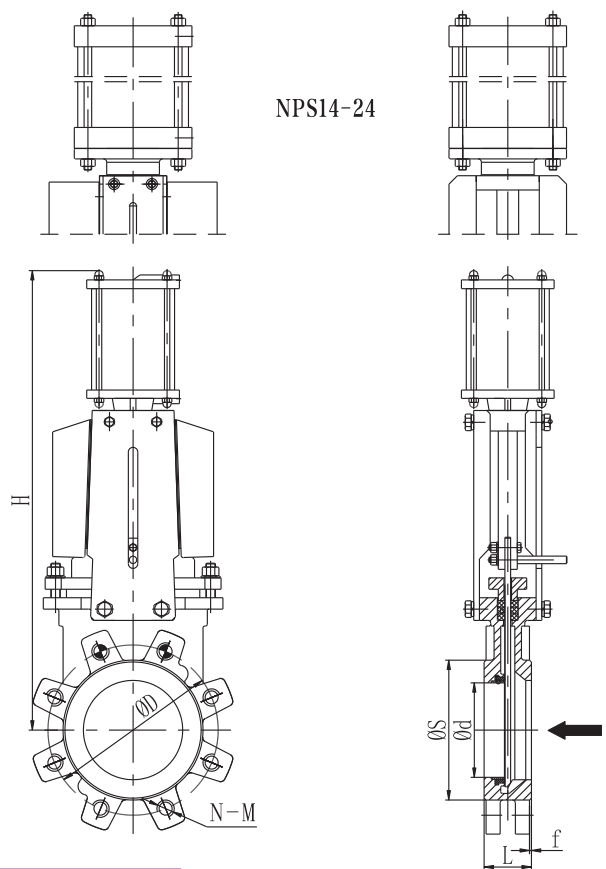
NPS	d	L	D	S	f	N-M(UNC)	H	Do
2	50	48	120.7	92.1	2	4-5/8"-11	415	200
2 1/2	65	48	139.7	104.8	2	4-5/8"-11	435	200
3	80	51	152.4	127.0	2	4-5/8"-11	465	200
4	100	51	190.5	157.0	2	8-5/8"-11	500	200
5	125	57	215.9	186.0	2	8-3/4"-10	565	200
6	150	57	241.3	215.9	2	8-3/4"-10	706	300
8	200	70	299.0	270	2	8-3/4"-10	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

Full lug pneumatical

GKU/GKO683

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



● Main dimensions

150LB

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

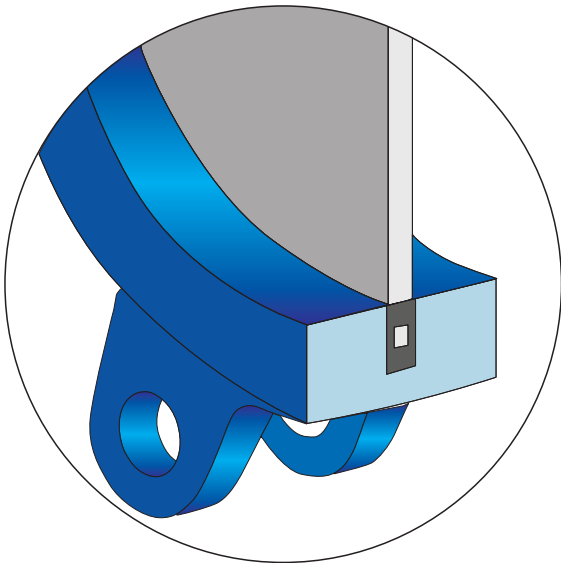
Bidirectional knife gate valves

GKB Series

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

Features

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

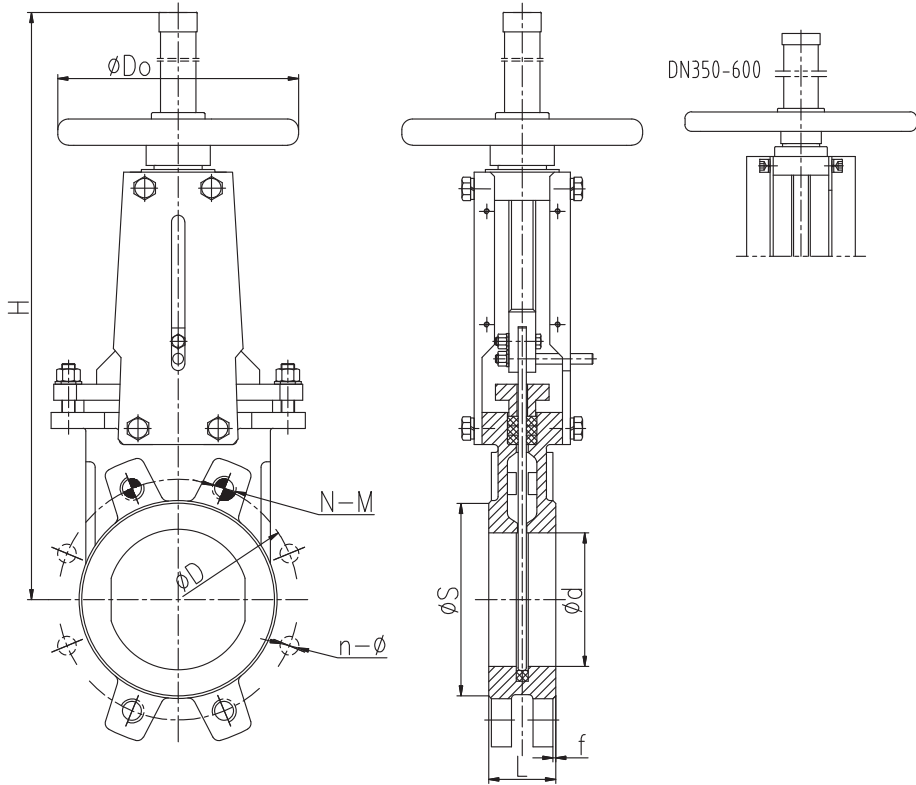


GKB

Rising stem handwheel

GKB73

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



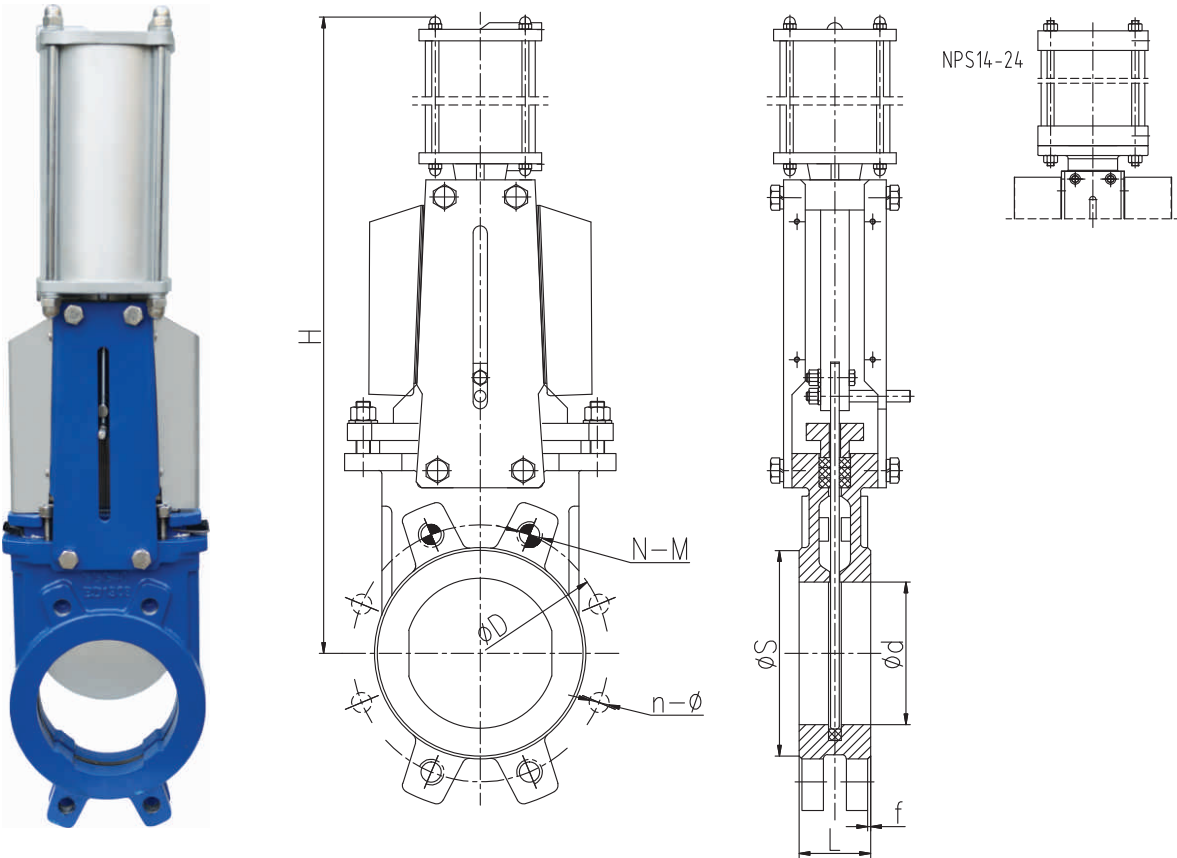
Main dimensions

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- Φ 18	170	450	200
100	50	180	148	17	2	4-M16	4- Φ 18	190	515	200
125	50	210	174	17	2	4-M20	4- Φ 18	212	570	220
150	60	240	199	21	2	4-M16	4- Φ 22	230	665	250
200	60	295	250	21	2	4-M20	4- Φ 22	286	825	300
250	70	350	308	24	2	8-M20	4- Φ 22	338	1000	350
300	70	400	360	24	2	8-M20	4- Φ 22	388	1155	350
350	96	460	416	33	2	10-M20	6- Φ 22	460	1310	400
400	100	515	466	35	2	10-M24	6- Φ 26	520	1475	500

≥DN450, please contact manufacturer

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



● Main dimensions

PN10

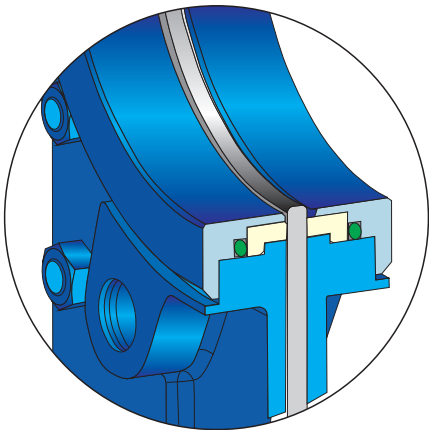
DN	L	D	S	C	f	N-M	n-Ø	B	H
50	40	125	95	16	2	4-M16	/	136	430
65	40	145	110	16	2	4-M16	/	151	460
80	50	160	127	17	2	4-M16	4-Φ18	170	510
100	50	180	148	17	2	4-M16	4-Φ18	190	570
125	50	210	174	17	2	4-M16	4-Φ18	212	660
150	60	240	199	21	2	4-M20	4-Φ22	230	720
200	60	295	250	21	2	4-M20	4-Φ22	286	890
250	70	350	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

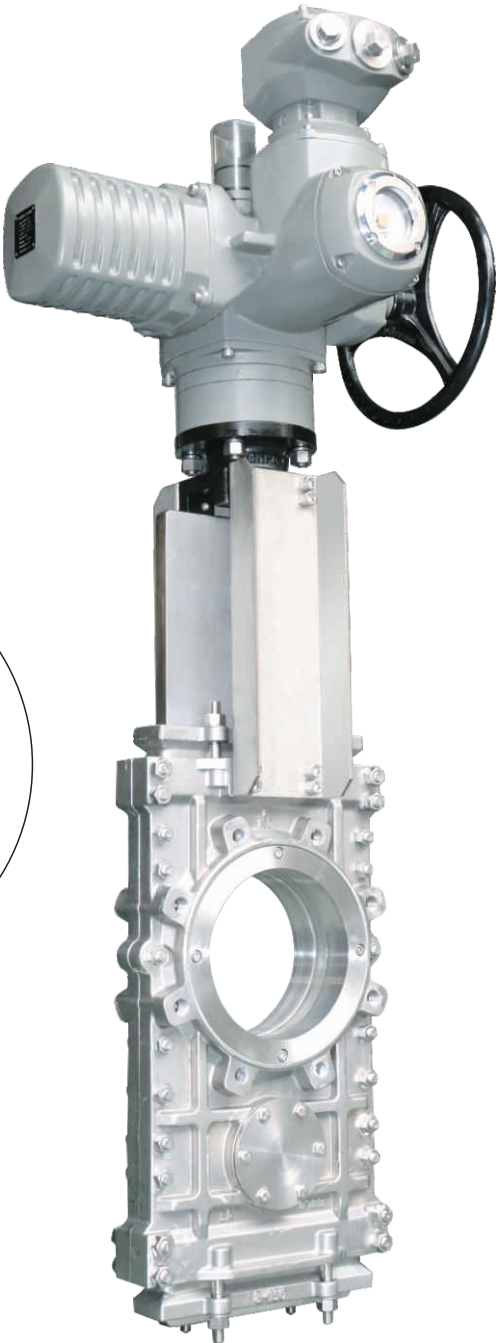
Flange drilling: PN10/150LB/10K/AS 2129
Material: GGG40/CF8/CF8M/ALLOY
Operation: Manual, pneumatic, electric, hydraulic

FEATURES

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



PTFE



GKR

High pressure GKR for Phosphorus
Ore Application

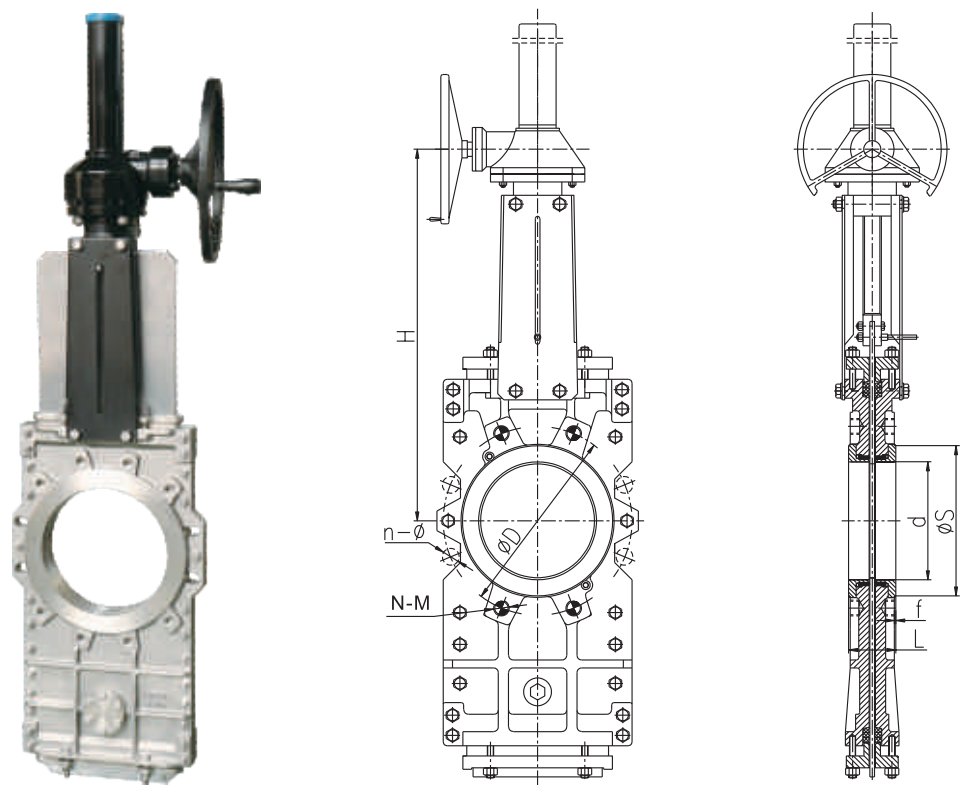


GKT

Bevel gear

GKT573

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



● Main dimensions

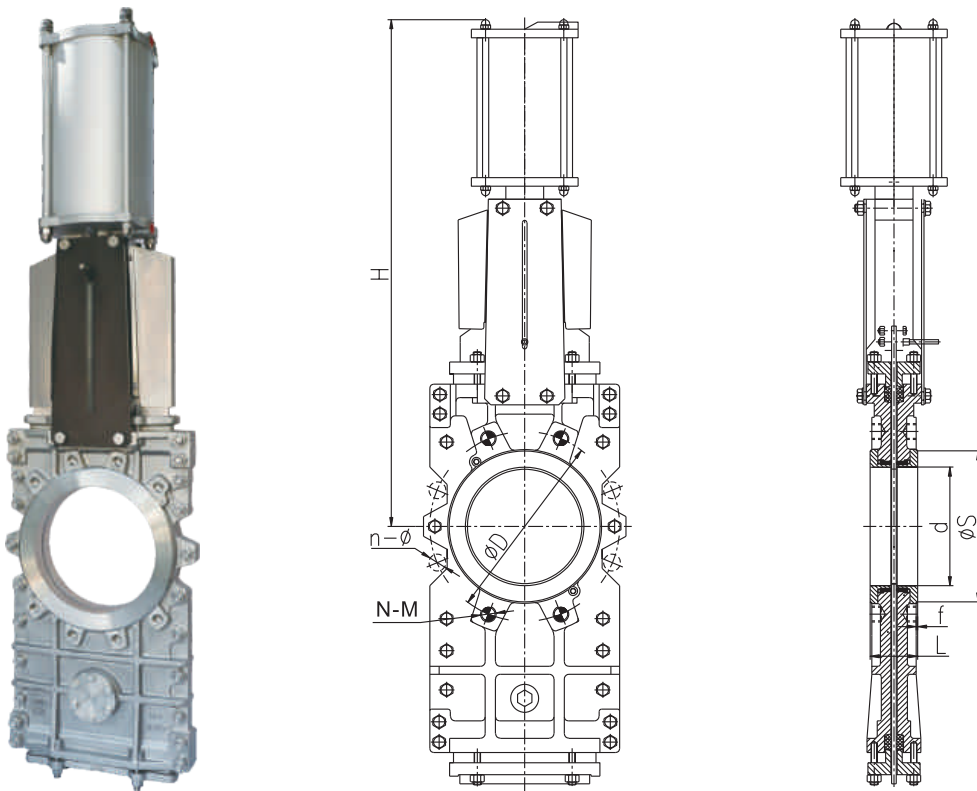
PN10

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								

Pneumatical

GKT673

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



● 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								

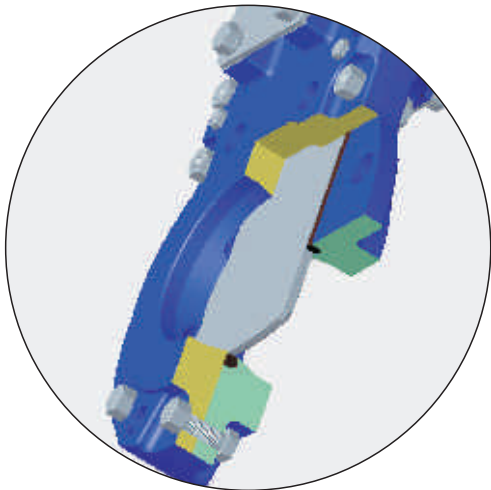
Bidirectional knife gate valves

GKJ Series

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

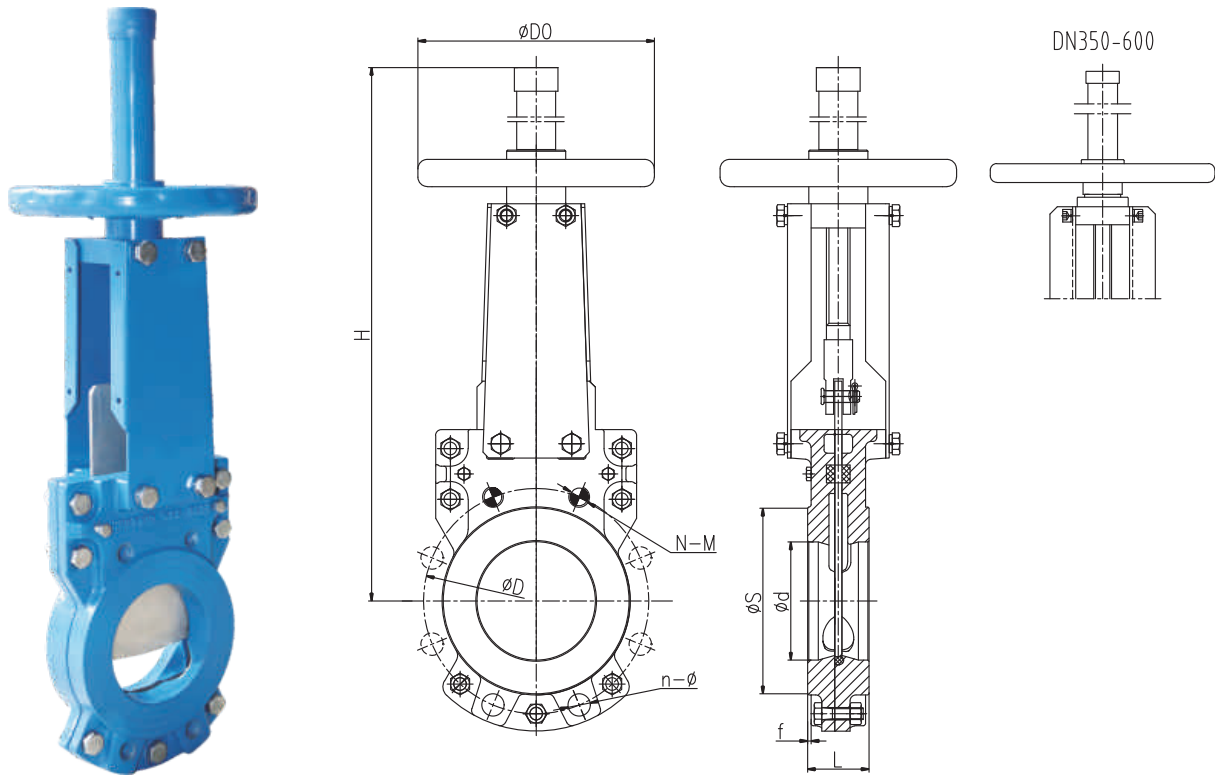


GKJ

Rising stem handwheel

GKJ73

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



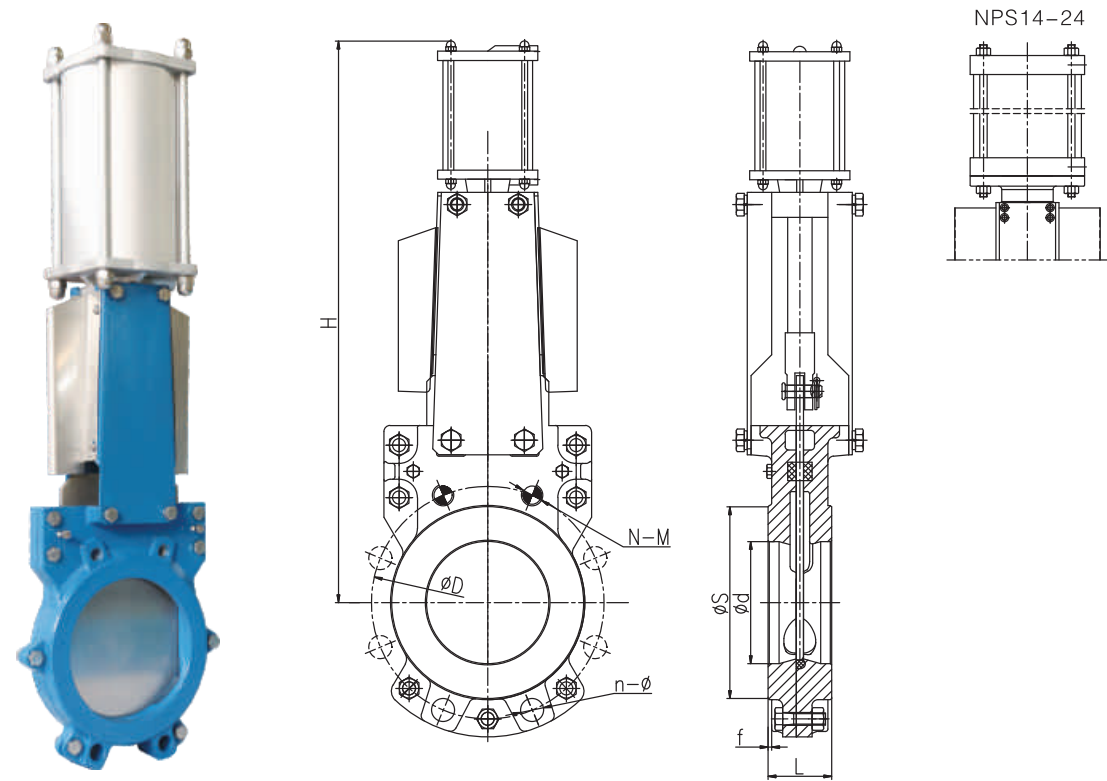
• Main dimensions

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



● 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								

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

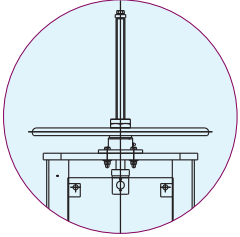
Features

- 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

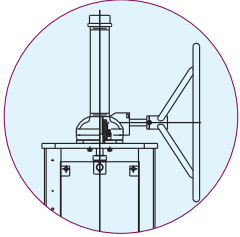
TECHINICAL DATA

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.

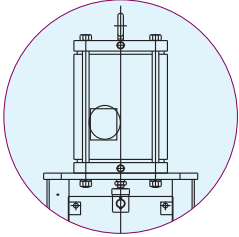
Driven way



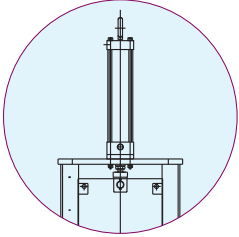
Handwheel



Bevel Gear



Air cylinder



Hydraulic actuator

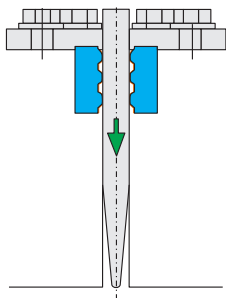


GKS

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



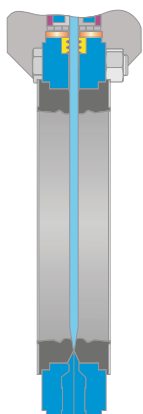
OPEN POSITION

- 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

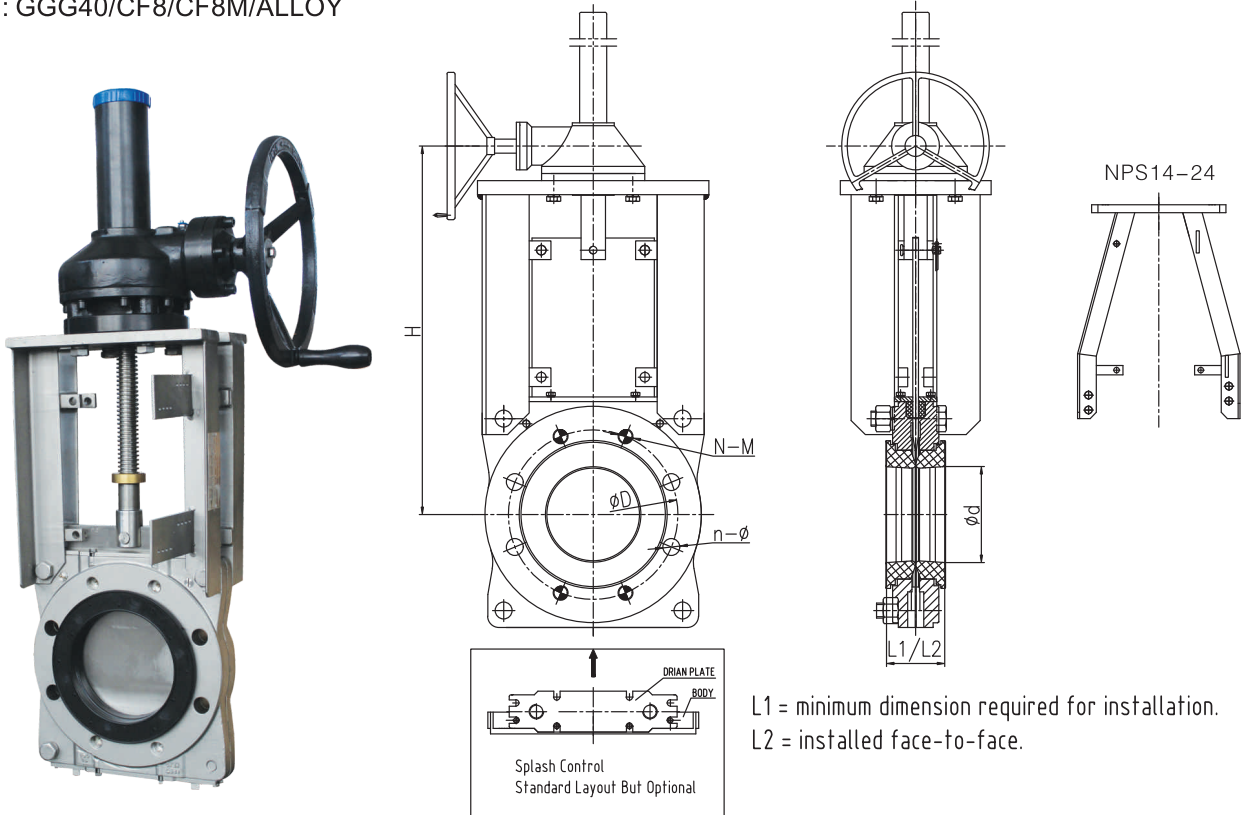


CLOSED POSITION

- 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



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

• Main dimensions 150Lb

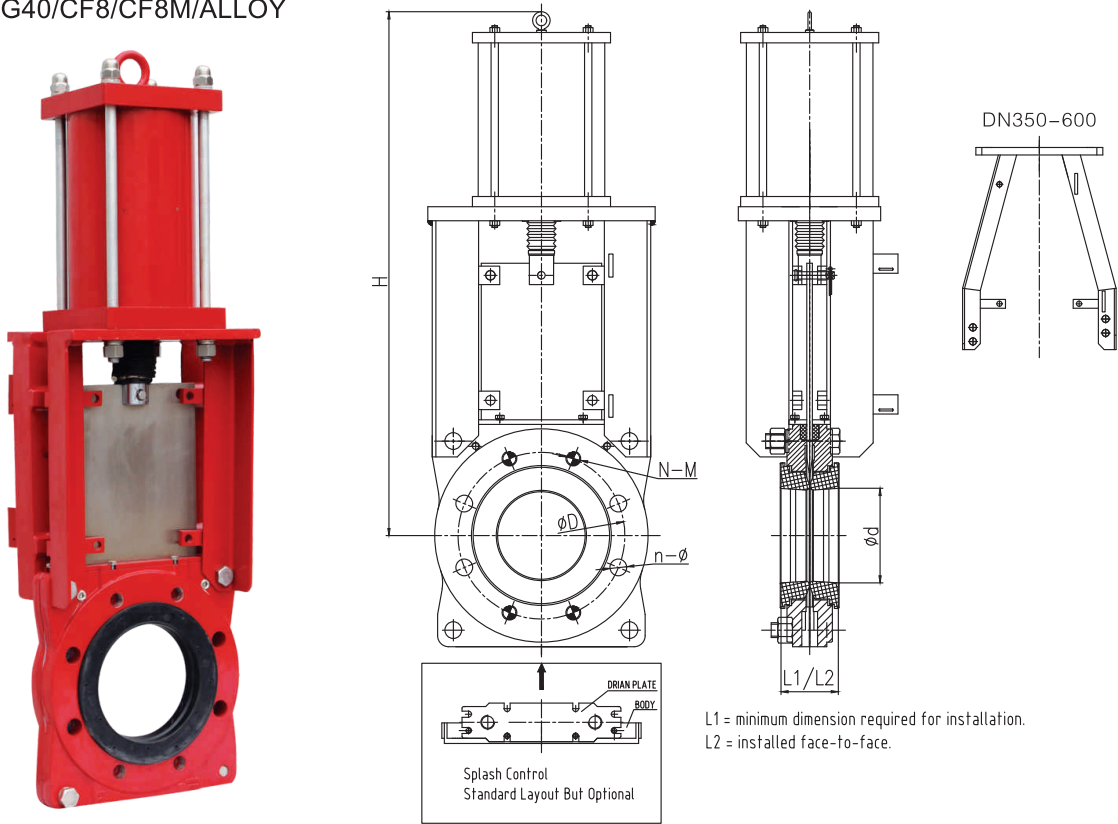
NPS	d	L1	L2	ΦD	N-M(UNC)	n-Φ	H
2	51	57	54	120.7	4-5/8"-11	/	325
2 1/2	64	57	54	139.7	4-5/8"-11	/	360
3	76	62	57	152.4	4-5/8"-11	/	397
4	102	62	57	190.5	4-5/8"-11	4-Φ19	445
5	127	65	60	215.9	4-3/4"-10	4-Φ22	490
6	154	68	63.5	241.3	4-3/4"-10	4-Φ22	550
8	204	81	76	298.5	4-3/4"-10	4-Φ22	631
10	254	83	79	362	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

Pneumatic

GKS673

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



● Main dimensions

PN10

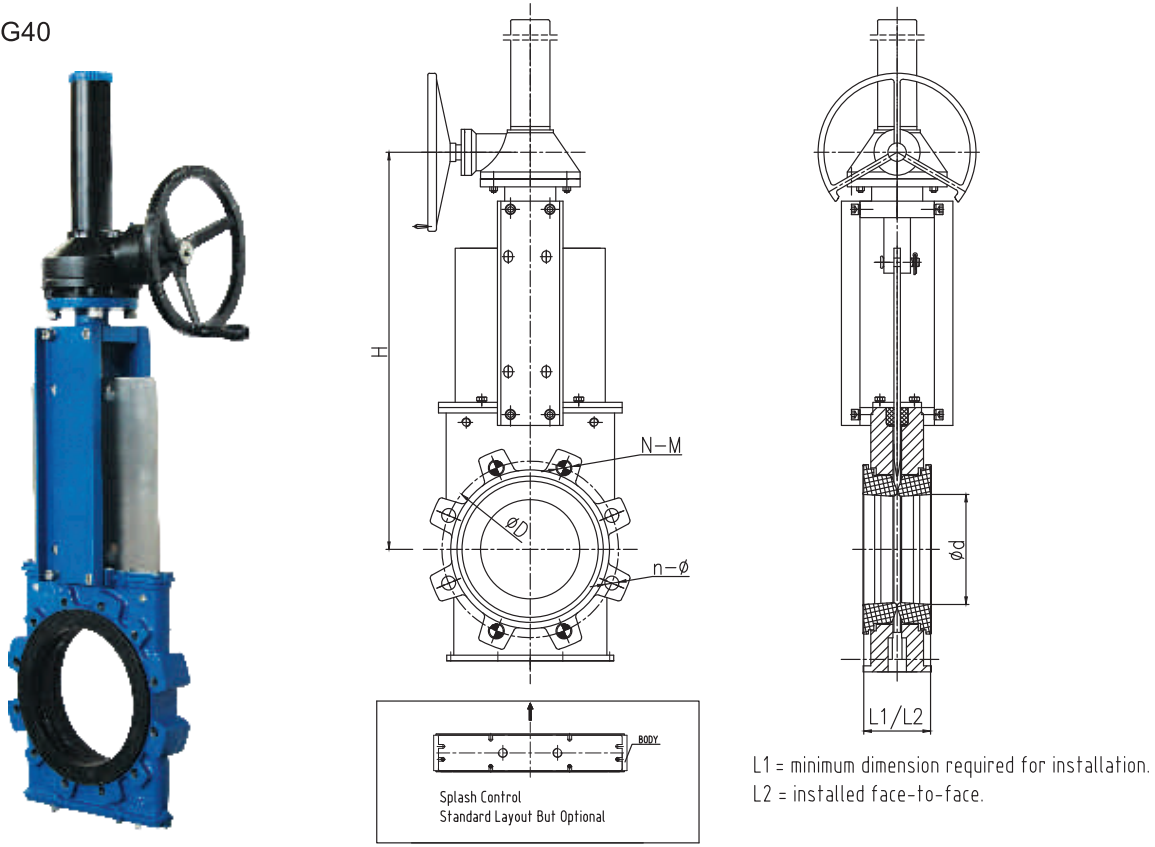
DN	d	L1	L2	D	N-M	n-φ	H
50	51	57	54	125	4-M16	/	455
65	64	57	54	145	4-M16	/	492
80	76	62	57	160	4-M16	4-φ18	570
100	102	62	57	180	4-M16	4-φ18	656
125	127	65	60	210	4-M16	4-φ18	731
150	154	68	63.5	240	4-M20	4-φ22	821
200	204	81	76	295	8-M20	/	955
250	254	83	79	350	8-M20	4-φ22	1140
300	296	89	83	400	8-M20	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

Bevel gear

GKW573

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



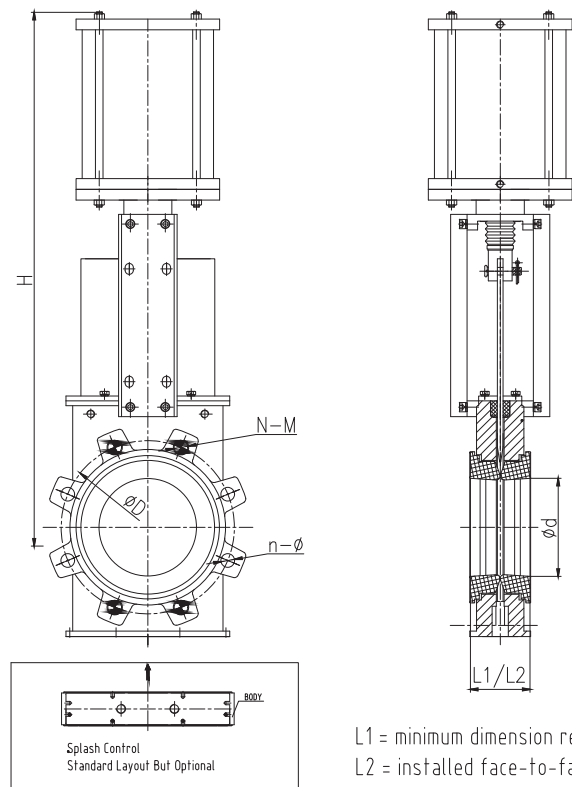
● Main dimensions

PN10

DN	d	L1	L2	D	N-M	n-φ	H
50	51	57	54	125	4-M16	/	/
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

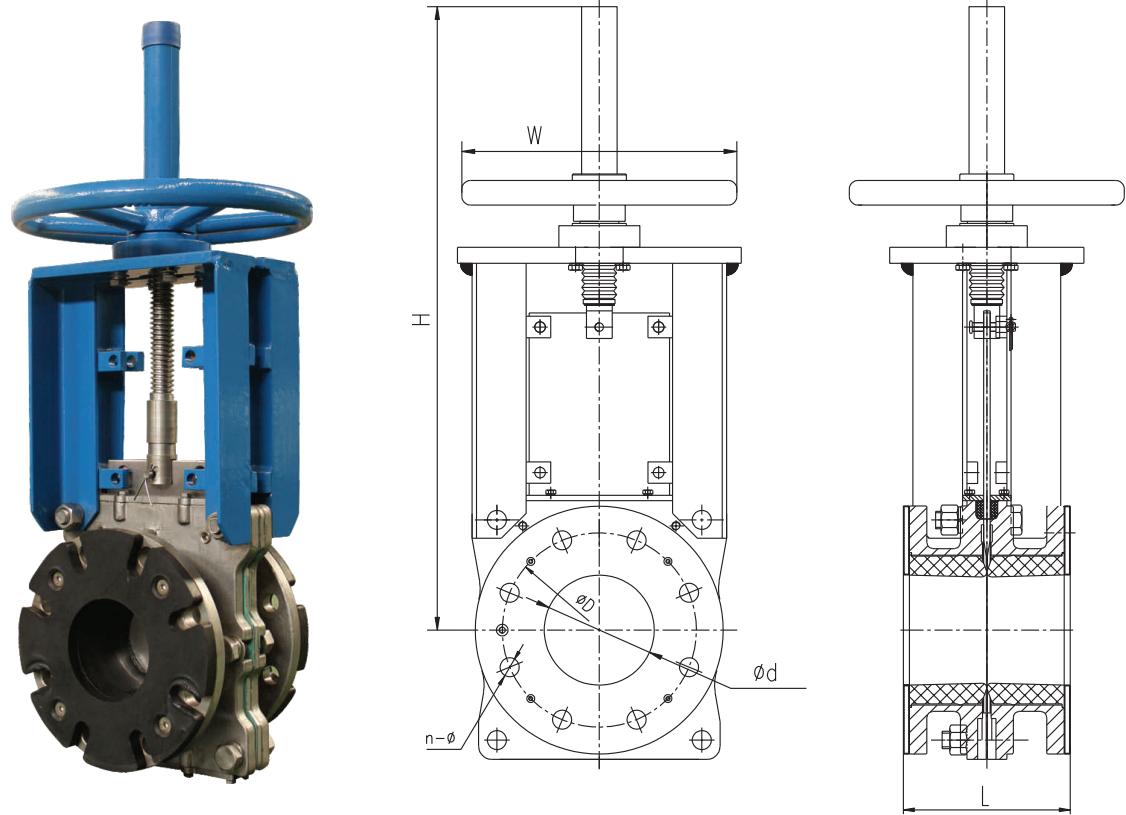
NPS	d	L1	L2	ΦD	N-M(UNC)	n-Φ	H
2	51	57	54	120.7	4-5/8"-11	/	455
2 1/2	64	57	54	139.7	4-5/8"-11	/	492
3	76	62	57	152.4	4-5/8"-11	/	570
4	102	62	57	190.5	4-5/8"-11	4-Φ19	656
5	127	65	60	215.9	4-3/4"-10	4-Φ22	731
6	154	68	63.5	241.3	4-3/4"-10	/	821
8	204	81	76	298.5	4-3/4"-10	/	955
10	254	83	79	362	12-7/8"-9	/	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

Rising stem handwheel

GKA43

Flange drilling: PN10/150LB/JIS 10K/AS 2129
Size range: DN50-DN1000
Material: GGG40/CF8/CF8M/ALLOY



● Main dimensions

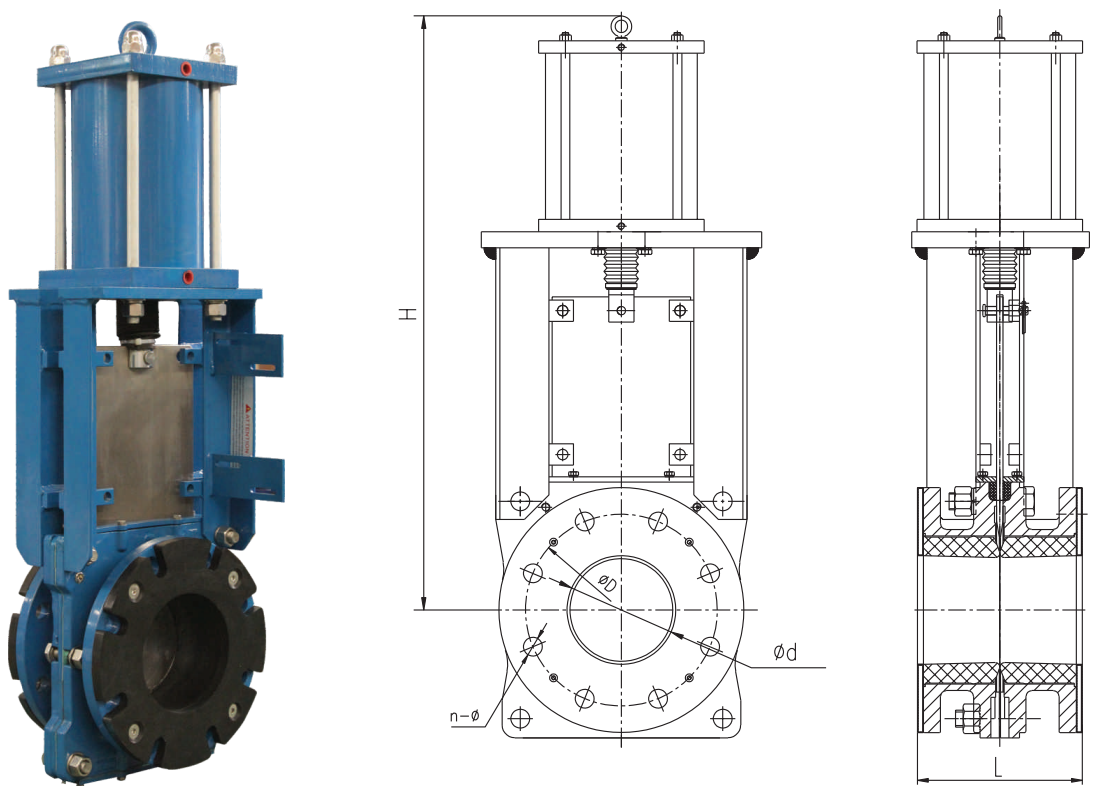
PN10

DN	Φd	L	D	n- Φ	W	H
50	51	175	125	4- $\Phi 18$	$\Phi 300$	405
65	60	175	145	4- $\Phi 18$	$\Phi 300$	450
80	71	175	160	8- $\Phi 18$	$\Phi 300$	515
100	98.5	175	180	8- $\Phi 18$	$\Phi 300$	597
125	122	178	210	8- $\Phi 18$	$\Phi 300$	650
150	148	178	240	8- $\Phi 22$	$\Phi 400$	770
200	197	184	295	8- $\Phi 22$	$\Phi 400$	875
250	246	226	350	12- $\Phi 22$	$\Phi 500$	1060
≥DN300 , please contact manufactur						

Pneumatical

GKA643

Flange drilling: PN10/150LB/JIS 10K/AS 2129
Size range: NPS2-NPS40
Material: GGG40/CF8/CF8M/ALLOY



● Main dimensions

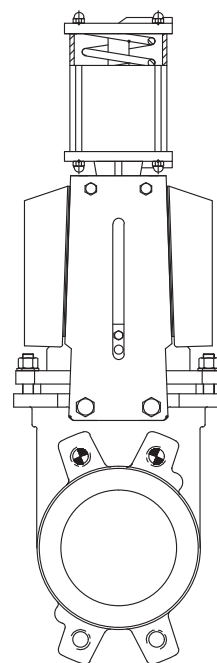
150LB

NPS	Φd	L	D	n- Φ	H
2	51	175	120.7	4- $\Phi 18$	455
2 1/2	60	175	139.7	4- $\Phi 18$	492
3	71	175	152.4	4- $\Phi 18$	570
4	98.5	175	190.5	8- $\Phi 18$	661
5	122	178	215.9	8- $\Phi 18$	731
6	148	178	241.3	8- $\Phi 22$	821
8	197	184	298.5	8- $\Phi 22$	955
10	246	226	362	12- $\Phi 26$	1140
12	292	257	431.8	12- $\Phi 26$	1342
14	336	257	476.3	12- $\Phi 29.5$	1490
16	375	279	539.8	16- $\Phi 29.5$	1690
≥NPS18 , please contact manufactur					

Fail safe system of knife gate valve

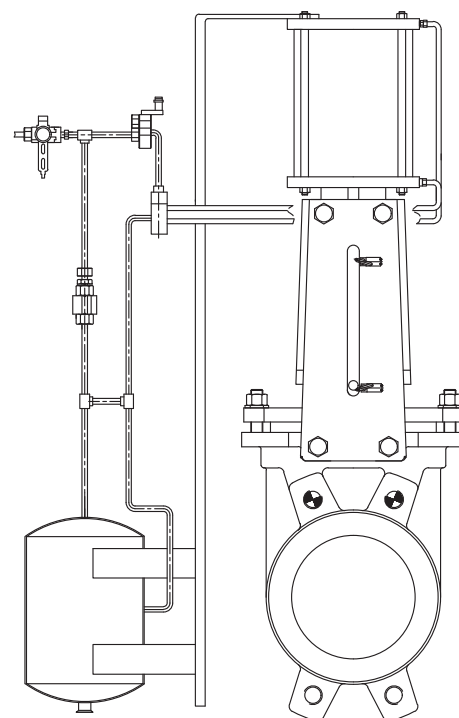
SINGLE ACTING (SPRING RETURN)

- 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. 10kg/cm²
- Options:
 - Fail open
 - Fail close



SINGLE ACTING (VOLUME RETURN)

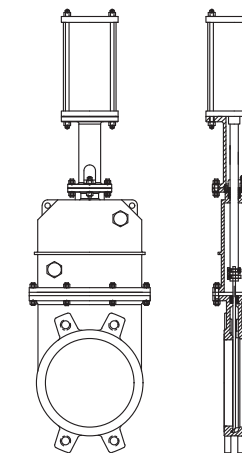
- This safety system consists on: double acting pneumatic cylinder, volume tank and all the necessary elements according to the available options (solenoid valve, spool valve,...)
- Available for all diameters
- Supply Pressure: min. 4.5 kg/cm² – max. 10 kg/cm²



Additional information of knife gate valves

BONNET

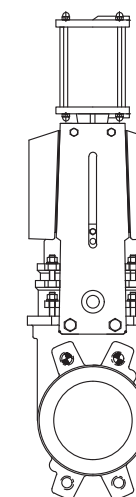
- Assures tight sealing to atmosphere.
- Reduces packing maintenance.



DOUBLE GLAND

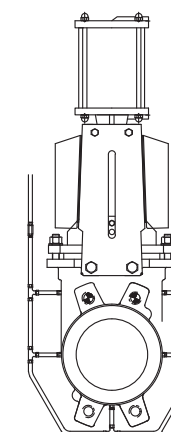
Double gland is developed for knife gate valves that are subject to severe operating conditions. It is often used on valves in junk traps and in difficult biomass applications.

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.



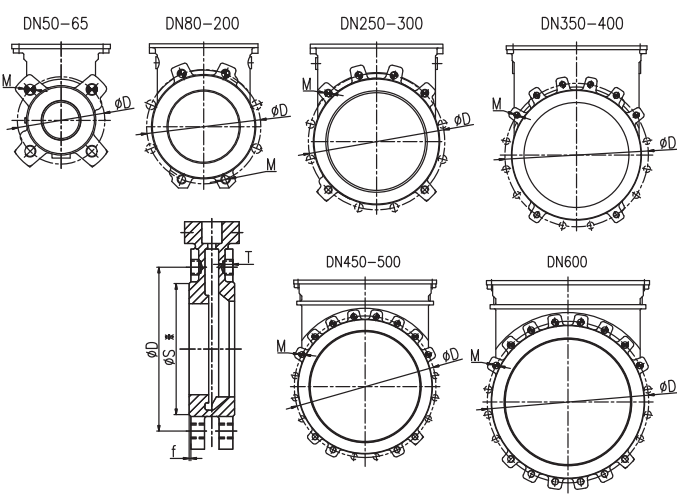
FLUSH PORTS

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.



Additional information of knife gate valves

FLANGE AND BOLTING DETAILS OF PN10 GKU SERIES

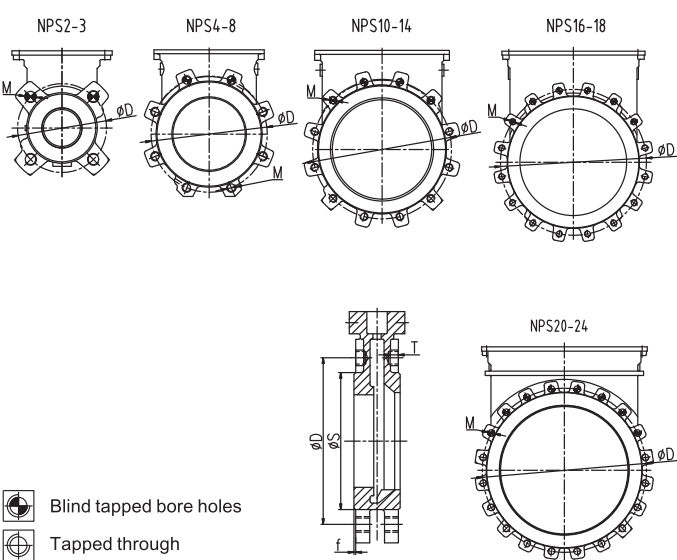


- Blind tapped bore holes
- Tapped through
- Through going bore
- Unthreaded hole

※: "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 150LB GKU SERIES

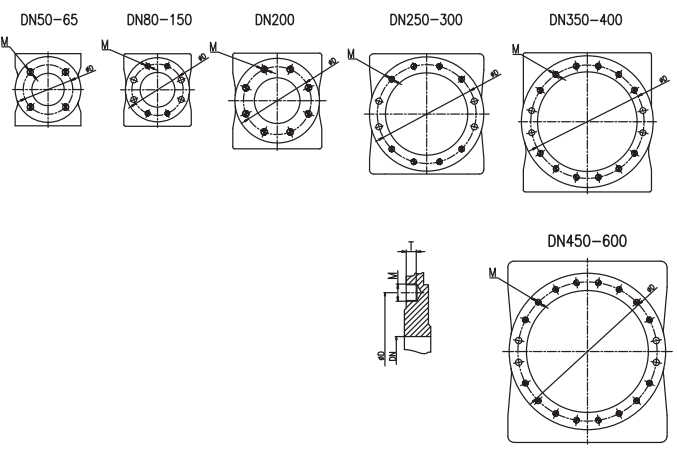


- Blind tapped bore holes
- Tapped through
- Through going bore
- Unthreaded hole

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

Additional information of knife gate valves

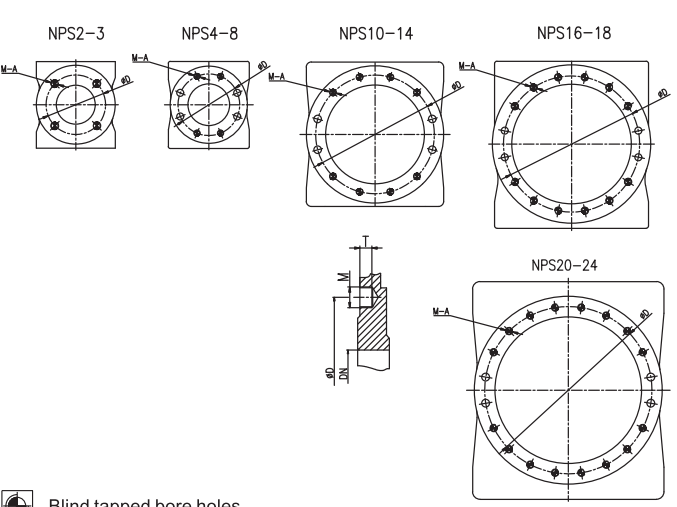
FLANGE AND BOLTING DETAILS OF PN10 GKS SERIES



- 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 GKS SERIES

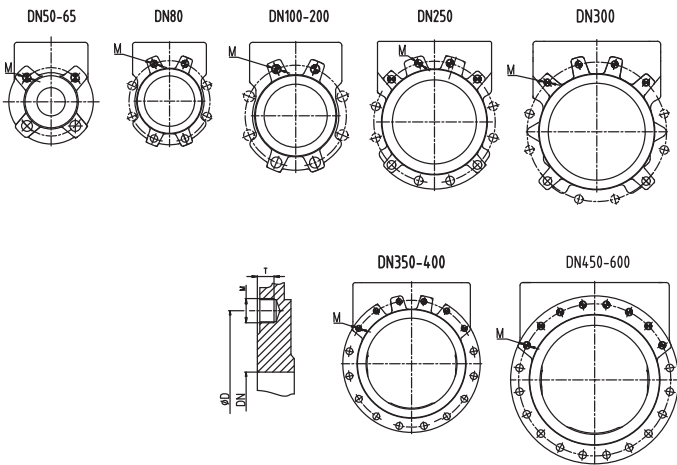


- Blind tapped bore holes
- Tapped through
- Through going bore
- Unthreaded hole

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

Additional information of knife gate valves

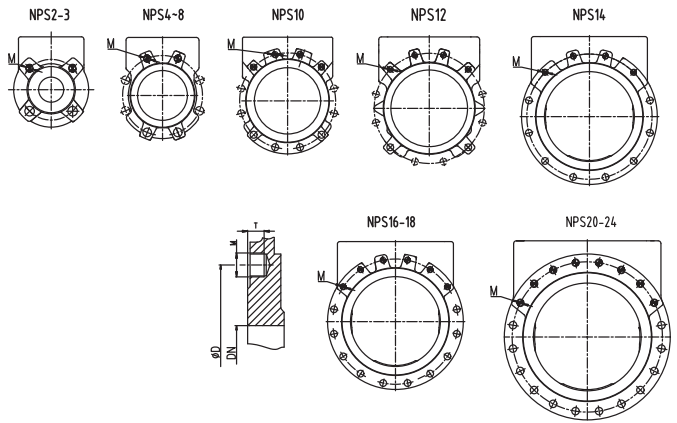
FLANGE AND BOLTING DETAILS OF PN10 GKJ SERIES



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

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



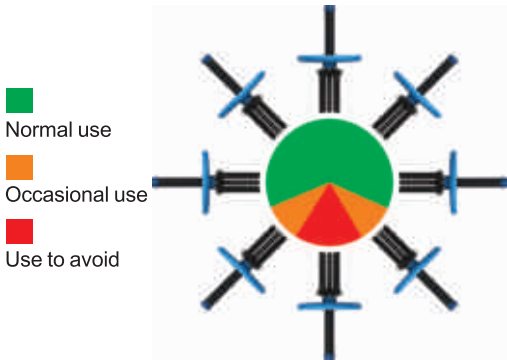
- Blind tapped bore holes
- Tapped through
- Through going bore
- Unthreaded hole

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

Additional information of knife gate valves

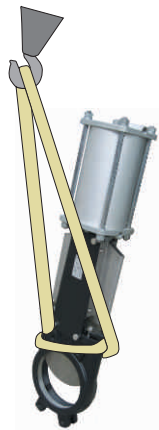
Valves positon

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.



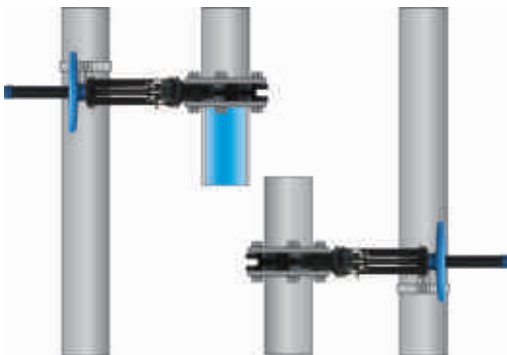
Installation

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



EPDM/NBR (black)



PTFE (white)



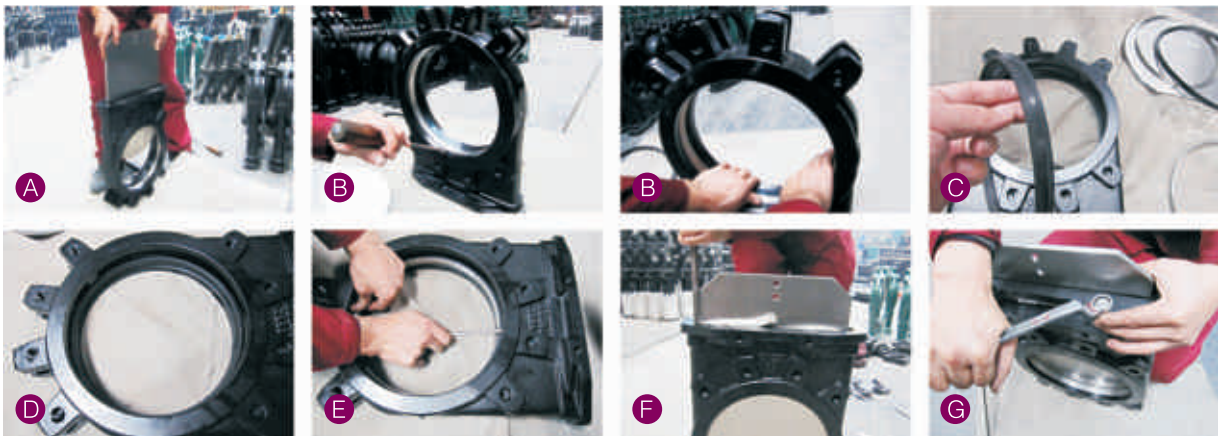
FKM (Green)

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

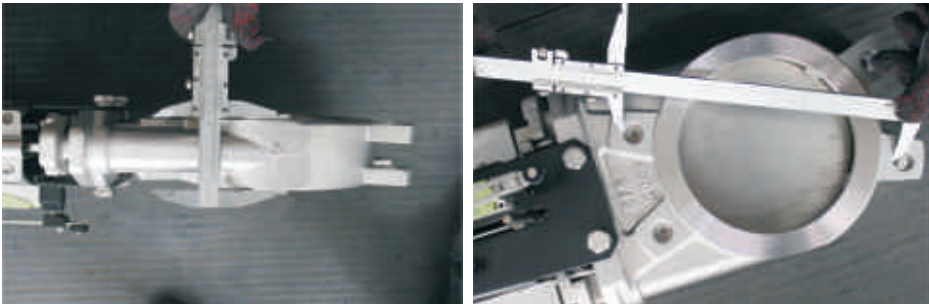


- A. Unscrewed packing gland and remove the gate
- B. Remove retainer ring
- C. Take the old EPDM ring out and clean it's place
- D. Put new EPDM ring in the place
- E. Put retainer on the EPDM ring
- F. Put gate back and packing in valve body
- G. Assemble the packing gland and tighten the screw

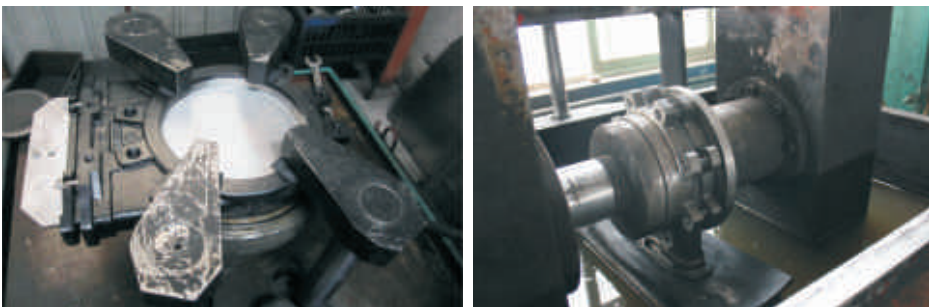
PMI Test for special material



Dimension checking



Hydrostatic test



Painting colour & thickness checking



High quality gate



Sand blasting & surface coating



Cylinder



DN50-DN300



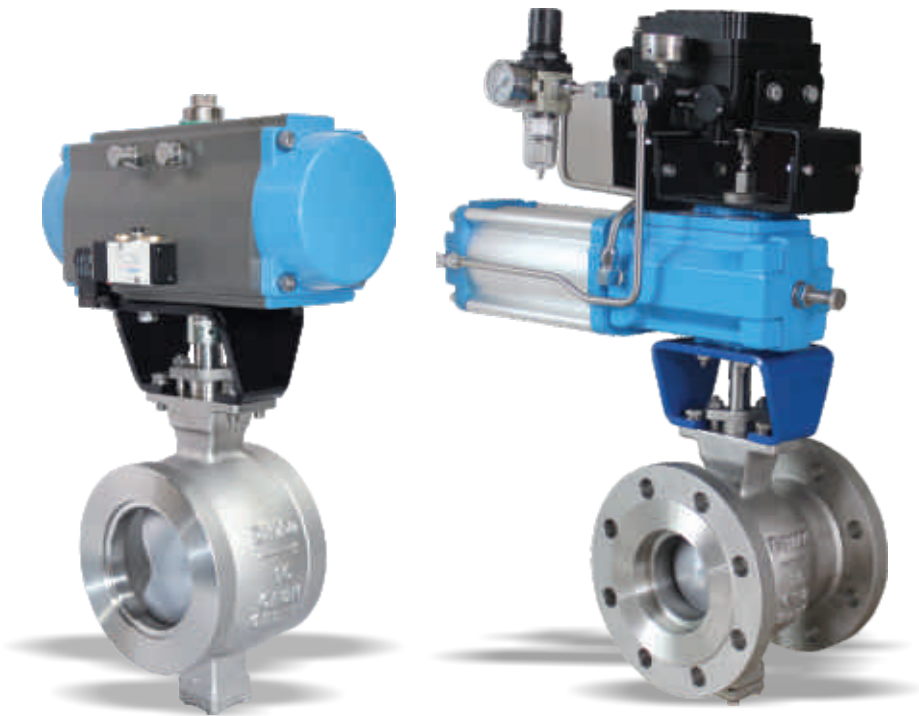
DN350-DN600



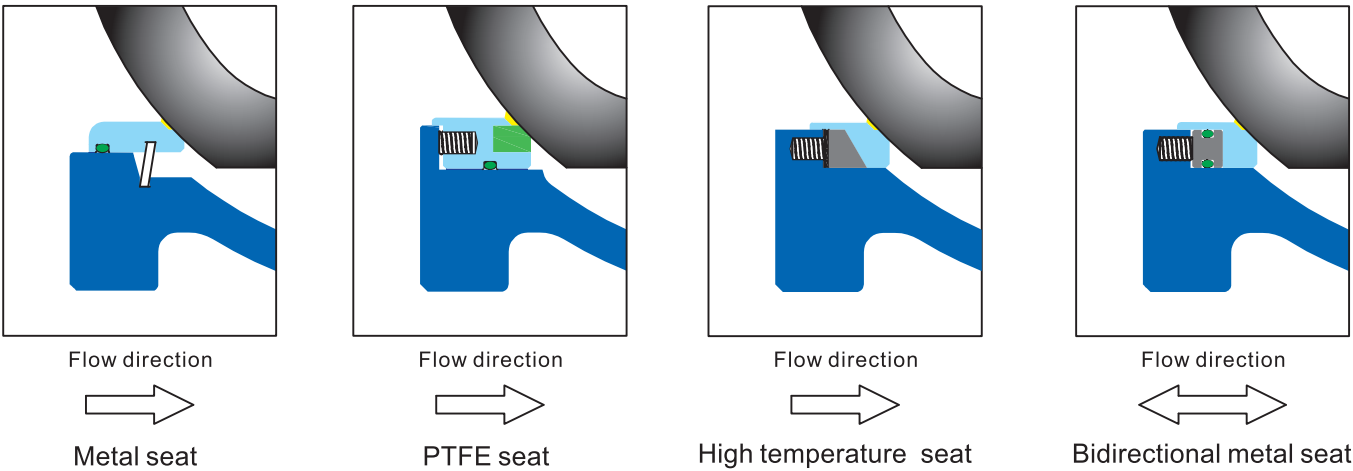
Flange drilling: PN10-25/150LB/JIS 10K/AS 2129
Material: WCB/CF8/CF8M/ALLOY
Operation: Manual, pneumatic, electric, hydraulic

Features

- Integral body construction
- Accurate control
- Durable metal seat



Seat Designs



V-port segment GVU series

GVU series V-port segment valves are economical high performance valves in quarter-turn design. They are offered with a variety of trim options from general applications. Standard units are equipped either cylinder actuators in double acting. Or bareshaft with ISO pad ready for actuator. The pneumatic accessories for precise control also on request.

Types and working pressure

- Valve types:
 - Wafer type 1"-10" DN25-DN250
 - Flange type 1"-24" DN25-DN600
- Flange drillings:
 - EN1092 PN10/PN16/PN25
 - ANSI 150LB 300LB

The Maximum allowable leakage of metal seat ball valve

Size	Maximum leakage
DN25(1")	1.50ml/min
DN32(1-1/4")	1.80ml/min
DN40(1-1/2")	2.40ml/min
DN50(2")	3.00ml/min
DN65(2-1/2")	3.90ml/min
DN80(3")	4.80ml/min
DN100(4")	6.00ml/min
DN125(5")	7.50ml/min
DN150(6")	9.00ml/min
DN200(8")	12.00ml/min
DN250(10")	15.00ml/min
DN300(12")	18.00ml/min
DN350(14")	21.00ml/min
DN400(16")	24.00ml/min
DN450(18")	26.00ml/min
DN500(20")	30.00ml/min

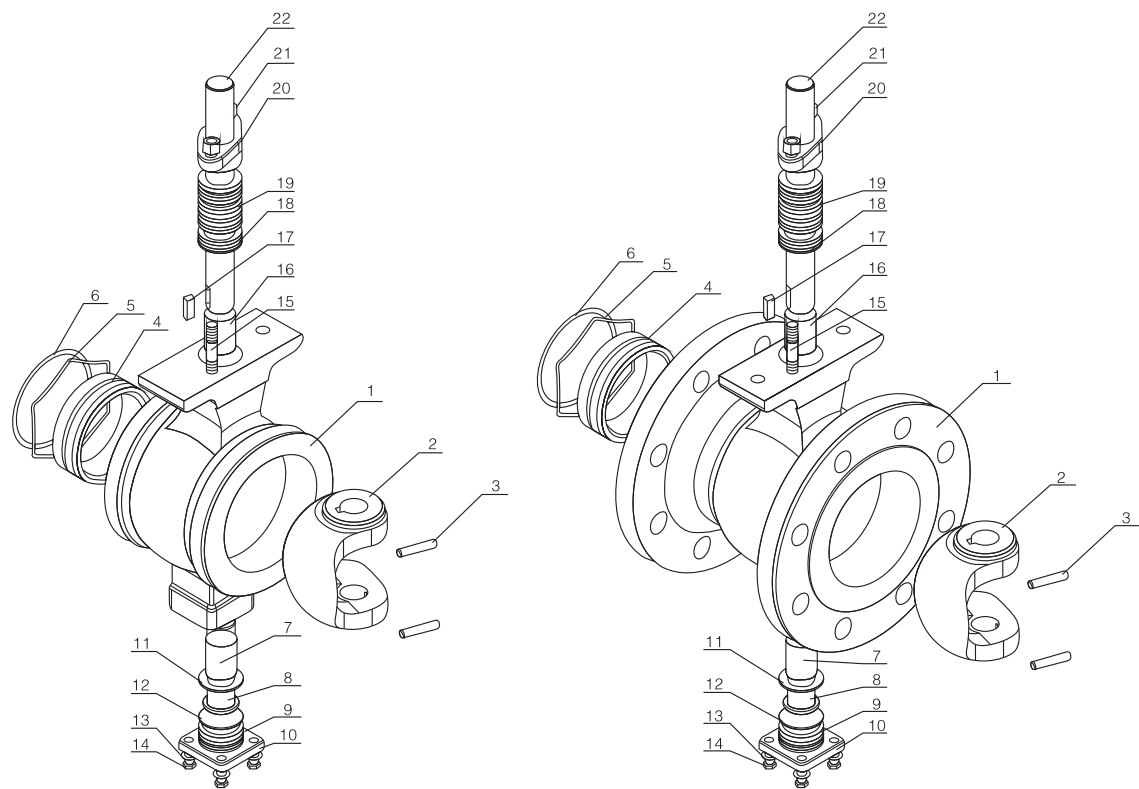
Segmented ball valve

GVU Series

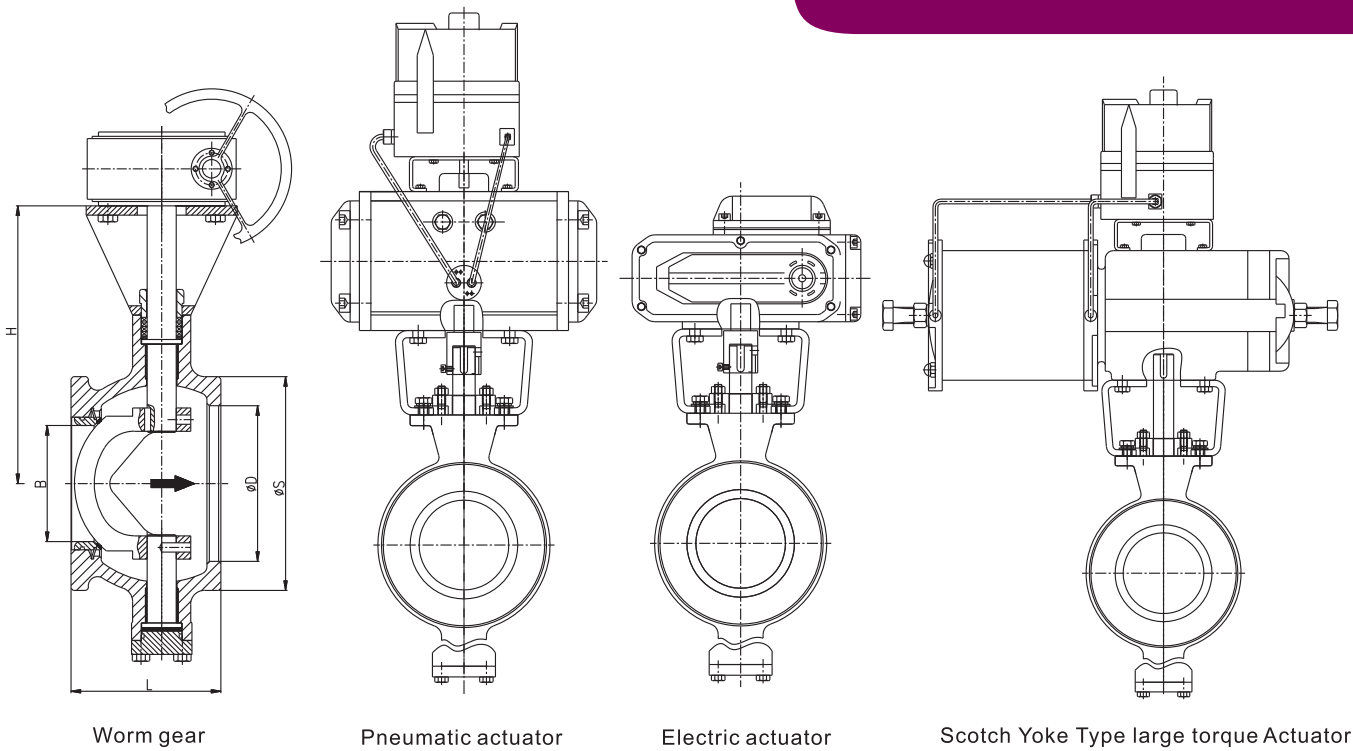
Wafer type

GVU77

● Main parts

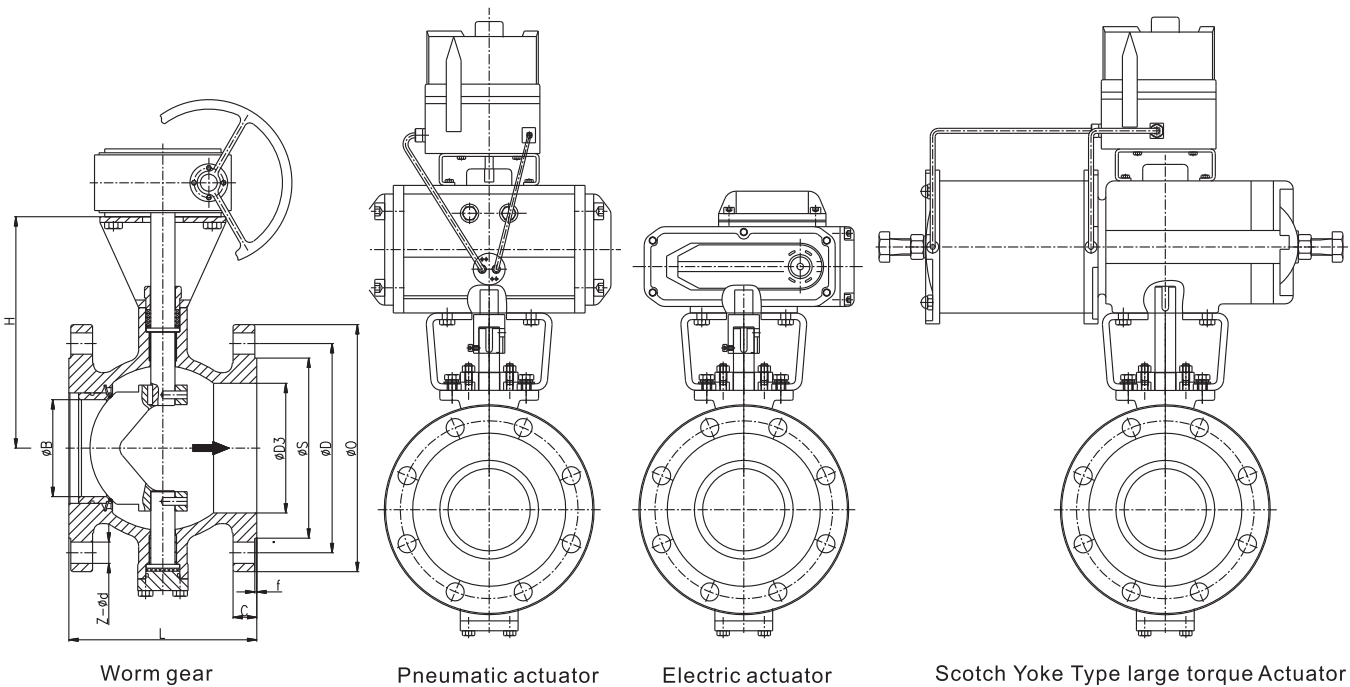


No.	Parts	Material		
1	Body	WCB	CF8	CF8M
2	Ball	CF8+Chrome plated	CF8+Chrome plated	CF8M+Chrome plated
3	Pin	SS304	SS304	SS316
4	Seat	F304+Stellite	F304+Stellite	F316+Stellite
5	Spring	17-7PH	17-7PH	17-7PH
6	O-Ring	FKM	FKM	FKM
7	Bushing	304+PTFE	304+PTFE	316+PTFE
8	Shaft	F304	F304	F316
9	O -ring	FKM	FKM	FKM
10	Cover	WCB	CF8	CF8M
11	Gasket	PTFE	PTFE	PTFE
12	Adjustment Gasket	PTFE	PTFE	PTFE
13	Washer	Steel	SS	SS
14	Hexagon bolt	Steel	SS304	SS316
15	Stud	Steel	SS304	SS316
16	Bushing	304+PTFE	304+PTFE	316+PTFE
17	Key	SS304	SS304	SS316
18	Washer	PTFE	SS304	SS316
19	Packing	PTFE	PTFE	PTFE
20	Gland plate	WCB	CF8	CF8
21	Nut	AISI 1045	SS304	SS304
22	Drive shaft	17-4PH	17-4PH	17-4PH



● Main dimensions

PN10/PN16/PN25/150LB							
DN	L	B	S	D	H	Torque	Cv
25	50	20	65	38	131	35	27
32	60	25	78	45	141	40	47
40	60	32	82	50	138	68	70
50	75	40	100	62	148	90	110
65	100	55	118	77	163	100	170
80	100	65	135	93	205	140	280
100	115	76	158	115	215	150	470
125	129	100	184	134	230	200	700
150	160	126	215	164	270	300	780
200	200	158	268	206	302	500	1720
250	240	198	325	260	365	900	2100



● Main dimensions

PN16												
DN	L	B	O	D	S	D3	C	f	Z-Ød	H	Torque	Cv
25	102	20	115	85	65	38	16	2	4-14	131	35	27
32	102	25	140	100	78	45	18	3	4-18	141	40	47
40	114	32	150	110	88	50	18	3	4-18	138	68	70
50	124	40	165	125	102	62	18	3	4-18	148	90	110
65	145	55	185	145	122	77	20	3	4-18	163	100	170
80	165	65	200	160	138	93	20	3	8-18	205	140	280
100	194	76	220	180	158	115	22	3	8-18	215	150	470
125	194	100	250	210	188	134	22	3	8-18	230	200	700
150	229	126	285	240	212	164	24	3	8-22	270	300	780
200	243	158	340	295	268	206	24	3	12-22	302	500	1720
250	297	198	405	355	320	260	26	3	12-26	365	900	2100
300	338	250	460	410	378	316	28	4	12-26	410	1400	3800
≥DN350 , please contact manufactur												