

SOFT SEAT

| | |
|--------------------------------|-----------|
| PD, KI Series | 1 |
| • technical data | 1 |
| • components DN 50-300 | 2 |
| • components DN 350-500 | 3 |
| KI Series | 4 |
| • components DN 600-800 | 4 |
| KA, KX technical data | 5 |
| • technical data | 5 |
| KA series | 6 |
| • components DN 40-300 | 6 |
| • components DN 350-400 | 7 |
| • components DN 450-500 | 8 |
| • components DN 600-800 | 9 |
| KX series | 10 |
| • components DN 50-250 | 10 |
| PD, KI, KA Series | 11 |
| • dimensions tables | 11 |
| BFKI, BVKX, BLKX Series | 12 |
| • dimensions tables | 12 |



| | |
|--------------------------------|-----------|
| Torque values tables | 13 |
| Head losses tables | 14 |
| Flange and bolts tables | 15 |
| Flanges | 16 |
| Tests | 16 |

| | |
|----------------------------------|-----------|
| Installation instructions | 17 |
| Handlever | 18 |
| Gearbox | 19 |
| • aluminium body | 19 |
| • cast iron body | 20 |

BVPD - Wafer **BLPD** - Lug
DN 50 - 500 • 2" - 20"

BVKI - Wafer **BLKI** - Lug
DN 40 - 800 • 1 1/2" - 32"

BFKI - double flange
DN 80 - 600 • 3" - 24"

Max working pressure:

BVPD/BLPD DN 50÷500: **6 Bar**
Flange: **PN 6-10-16 • A150**

BVKI/BLKI DN 40÷500: **16 Bar**
Flange: **PN 10-16 • A150**

BVKI/BLKI DN 600÷800: **10 Bar**
Flange: **PN 6-10-16 • A150**

BFKI DN 80÷600: **16 Bar**
Flange: **PN 6-10-16 • A150**

KI series to be used also with vacuum

Design:

EN 593 ~ EN 736 ~ EN 12516 ~ EN 1092
ISO 5211 ~ DIN 3337 ~ API 609
PED 97/23/EC(cat III) Mod H

Face to face:

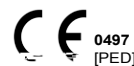
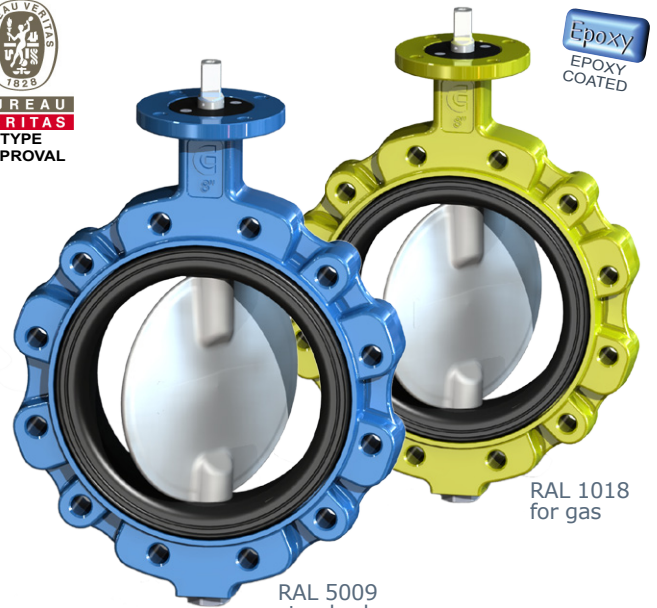
DIN EN 558-1 Series 20 ~ ISO 5752 Series 20
BS-5155 Series 4 ~ MSS-SP67
API609 cat.A ~ NFE 29305-1

Testing:

EN 12266-1 Rate A ~ ISO 5208 Rate A
DIN 3230 ~ API 598

Tag:

EN 19 ~ MSS SP-25



All valves are supplied with a metallic label in compliance with PED directive.

| BODY | | | BVPD | BVKI / BLKI | BFKI |
|------------------------------------|-----------------------|------------------|--------|-------------|--------|
| material | references | standard coating | DN | DN | DN |
| Ductile iron | EN-GJS 400-15 (GS400) | Epoxy RAL 5009 | 50-500 | 40-800 | 80-600 |
| Carbon steel | ASTM A216-WCB | Epoxy RAL 9005 | 50-500 | 40-800 | - |
| Stainless steel | ASTM A351 CF8M (A316) | - | 50-500 | 40-800 | - |
| Aluminium-bronze | ASTM B148-C958.00 | - | 50-500 | 40-800 | - |
| Aluminium (P _{max} 10Bar) | EN AB 46400 | Epoxy RAL 7024 | 50-500 | 40-500 | - |

| DISC | | | BVPD | BVKI / BLKI | BFKI |
|------------------|-----------------------|------------------|---------|-------------|---------|
| material | references | standard coating | DN | DN | DN |
| Steel | ASTM A105 | Zinc | 50-100 | 50-100 | 80-100 |
| Ductile iron | EN-GJS 400-15 (GS400) | Zinc | 125-500 | 125-800 | 125-600 |
| Stainless steel | ASTM A351 CF8M (A316) | - | 50-500 | 40-800 | 80-600 |
| Aluminium-bronze | ASTM B148-C958.00 | - | 50-500 | 40-800 | 80-600 |
| Hastelloy® | ASTM A494 CX2MW | - | 50-500 | 40-800 | 80-600 |
| Monel® | ASTM A494 M35-1 | - | 50-500 | 40-800 | 80-600 |

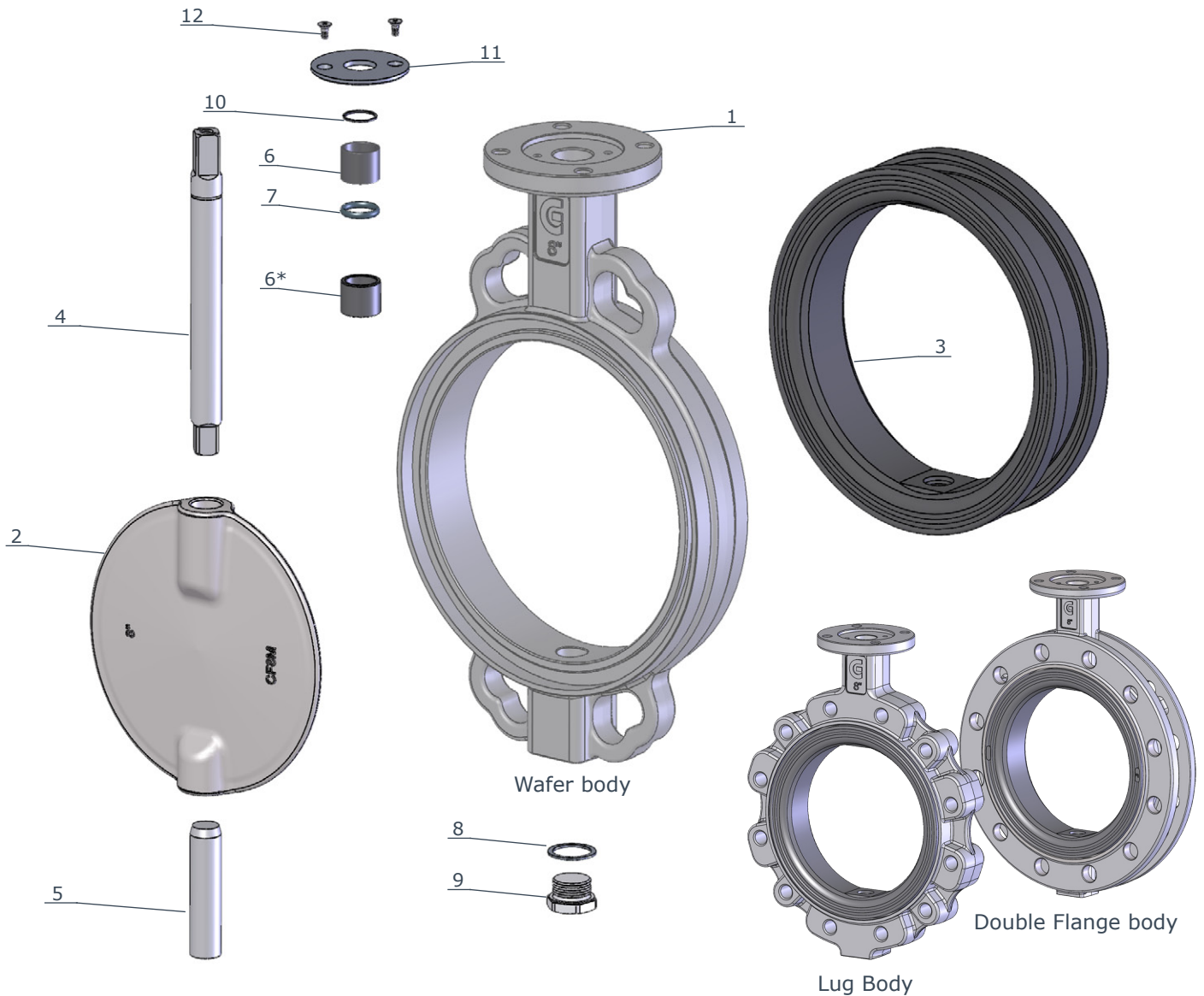
| BODY RUBBER SEAT | | DN 40/500 replaceable - DN 600/800 vulcanized not replaceable | | | |
|------------------|-------------------------------|---|----------------|--|--|
| ref. | designation | trade name | working temp. | applications | |
| NBR | nitrile rubber | BUNA® | -25°C / +100°C | oils, hydrocarbons, gas, air, water | |
| EPDM | copolymer EPDM | - | -35°C / +130°C | water, sea water, steam, diluted acids | |
| EPDM HT | copolimery EPDM HT | - | -30°C / +135°C | water, sea water, steam, diluted acids | |
| CO | carboxide | - | -25°C / +100°C | dust, air | |
| FKM | fluoroelastomer | VITON® | -20°C / +200°C | oils, acids, hydrocabons | |
| CR | polychloroprene | NEOPRENE® | -20°C / +100°C | alkali, bases, water | |
| NR | natural rubber | - | -40°C / + 80°C | glycols, abrasive media | |
| MVQ | silicon rubber | SILOPREN® | -60°C / +190°C | water, food, drinks | |
| CSM | chlorosulfonated polyethylene | HYPALON® | -20°C / +125°C | acids, mineral bases, alcohols, hydrocarbons | |

On request can be supplied other materials as: LCB, Hastelloy, Monel, Uranus, Alloy, DUPLEX, Special steels, Special bronzes.
Coating on request: RILSAN®, Halar®, Chenisil®

BVPD - Wafer BLPD - Lug
 DN 50 - 300 • 2" - 12"
 PN 6-10-16 • ANSI 150

BVKI - Wafer BLKI - Lug
 DN 40 - 300 • 1"1/1 - 12"
 PN 10-16 • ANSI 150

BFKI - double flange
 DN 80 - 300 • 3" - 12"
 PN 6-10-16 • ANSI 150



| item | q.ty | part | material | item | q.ty | part | material |
|------|------|-------------------------|---|------|------|---------------|--|
| 1 | 1 | body (BFKI only GS400) | <ul style="list-style-type: none"> ductile iron GS400 A216 - WCB A352 - LCB A351 - CF8M (AISI 316) aluminium-bronze aluminium (only WAFER) | 4 | 1 | upper shaft | <ul style="list-style-type: none"> AISI 430 AISI 316 (on request) |
| 2 | 1 | disc | <ul style="list-style-type: none"> ductile iron GS400 A351 - CF8M (AISI 316) aluminium-bronze Hastelloy® Monel® | 5 | 1 | lower shaft | <ul style="list-style-type: none"> AISI 430 AISI 316 (on request) |
| ◇3 | 1 | body seat (replaceable) | <ul style="list-style-type: none"> NBR (BUNA®) EPDM EPDM HT FKM (VITON®) carboxide polychloroprene (NEOPRENE®) natural rubber silicon | ◇6 | 1 | bush | bronze |
| | | | | ◇6* | 1 | bush | bronze |
| | | | | ◇7 | 1 | shaft packing | <ul style="list-style-type: none"> NBR (BUNA®) FKM (VITON®) on request |
| | | | | 8 | 1 | plug packing | aluminium |
| | | | | 9 | 1 | threaded plug | zinc plated steel |
| | | | | 10 | 1 | stop ring | steel |
| | | | | 11 | 1 | upper flange | <ul style="list-style-type: none"> IXEF (DN 40-150) aluminium (DN 200-300) |
| | | | | 12 | 2 | screw | zinc plated steel |

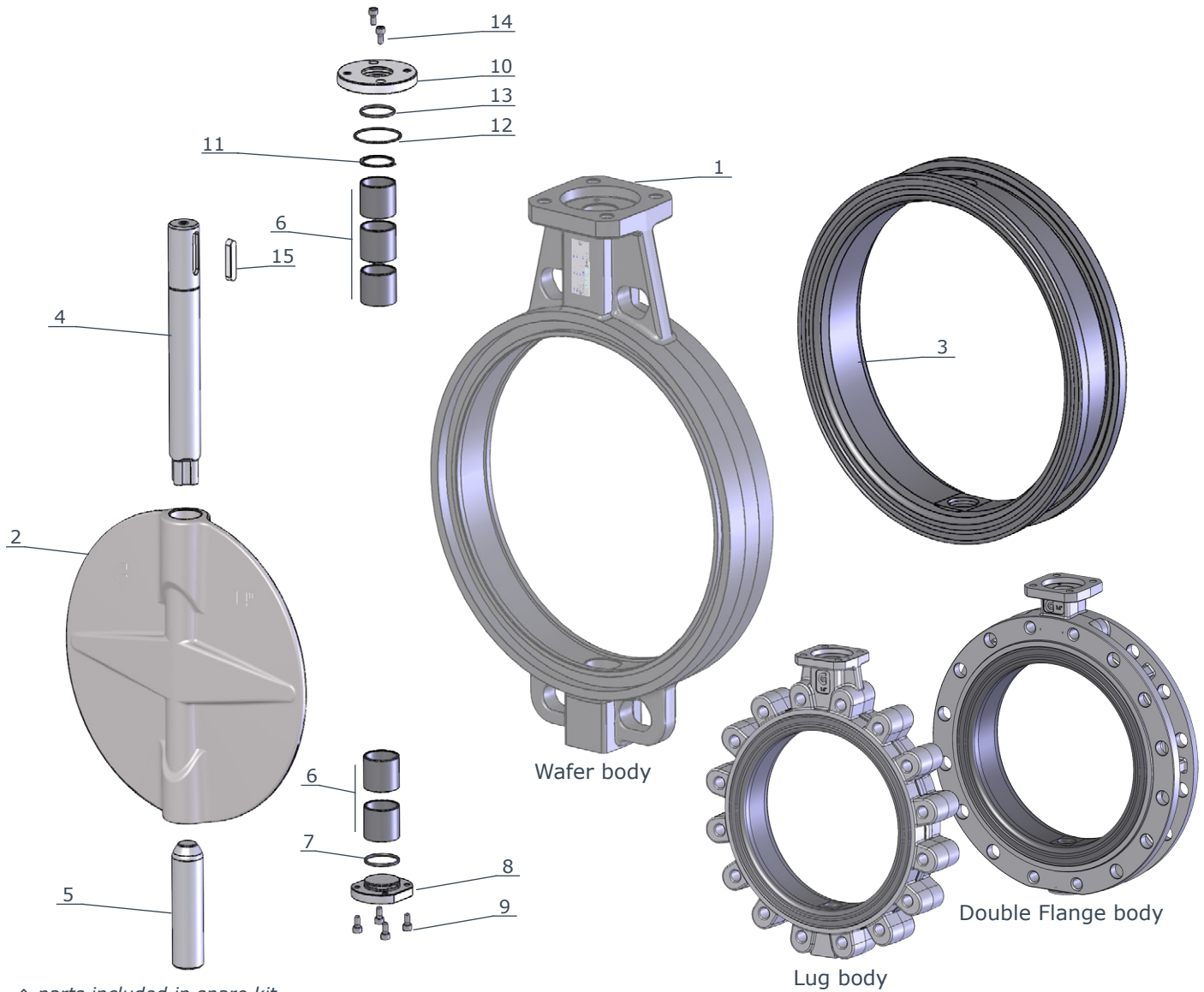
◇ parts included in spare kit

* only for DN300

BVPD - Wafer BLPD - Lug
DN 350 - 500 • 14" - 20"
PN 6-10-16 • ANSI 150

BVKI - Wafer BLKI - Lug
DN 350 - 500 • 14" - 20"
PN 10-16 • ANSI 150

BFKI - double flange
DN 350 - 500 • 14" - 20"
PN 6-10-16 • ANSI 150

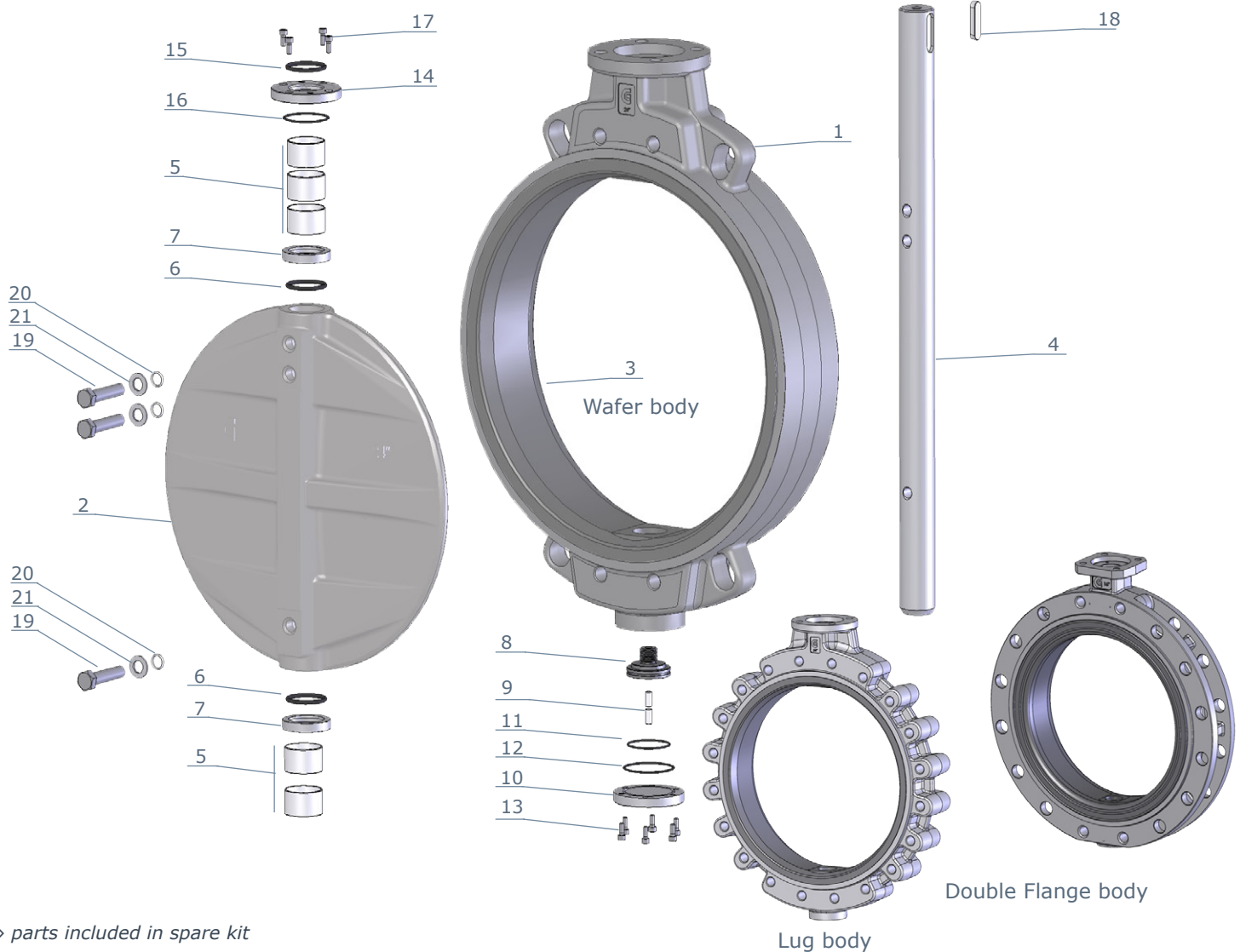


◇ parts included in spare kit

| item | q.ty | part | material | item | q.ty | part | material |
|------|------|------------------------------|---|------|------|----------------------|---|
| 1 | 1 | body (BFKI only GS400) | <ul style="list-style-type: none"> ductile iron GS400 A216-WCB A352-LCB A351-CF8M (AISI 316) aluminium-bronze aluminium (only WAFER) | 5 | 1 | lower shaft | <ul style="list-style-type: none"> AISI 430 AISI 316 (on request) |
| 2 | 1 | disc | <ul style="list-style-type: none"> ductile iron GS400 A351-CF8M (AISI 316) aluminium-bronze Hastelloy® Monel® | ◇6 | 5 | bush | <ul style="list-style-type: none"> bronze steel+PTFE (DN 450-500) |
| ◇3 | 1 | body seat (replaceable) | <ul style="list-style-type: none"> NBR (BUNA®) EPDM EPDM HT FKM (VITON®) carboxide polychloroprene (NEOPRENE®) natural rubber silicon | ◇7 | 1 | packing lower flange | <ul style="list-style-type: none"> NBR (BUNA®) |
| 4 | 1 | upper shaft | <ul style="list-style-type: none"> AISI 430 AISI 316 (on request) | 8 | 1 | lower flange | <ul style="list-style-type: none"> zinc plated steel |
| | | | | 9 | 4 | screw | <ul style="list-style-type: none"> zinc plated steel |
| | | | | 10 | 1 | upper flange | <ul style="list-style-type: none"> zinc plated steel |
| | | | | 11 | 1 | stop ring | <ul style="list-style-type: none"> steel |
| | | | | ◇12 | 1 | O.Ring | <ul style="list-style-type: none"> NBR (BUNA®) |
| | | | | ◇13 | 1 | O.Ring | <ul style="list-style-type: none"> NBR (BUNA®) |
| | | | | 14 | 2 | screw | <ul style="list-style-type: none"> zinc plated steel |
| | | | | 15 | 1 | key | <ul style="list-style-type: none"> steel C40 |

BVKI - Wafer **BLKI** - Lug
 DN 600 - 800 • 24" - 32"
 PN 6-10-16 • ANSI 150

BFKI - double flange
 DN 600 • 24"
 PN 6-10-16 • ANSI 150



◇ parts included in spare kit

| item | q.ty | part | material | item | q.ty | part | material |
|------|------|--|--|------|------|-----------------|---------------------|
| 1 | 1 | body (BFKI only GS400) | <ul style="list-style-type: none"> ductile iron GS400 A216-WCB A352-LCB A351-CF8M (AISI 316) aluminium-bronze | 7 | 2 | O.ring housing | • AISI 316 |
| 2 | 1 | disc | <ul style="list-style-type: none"> ductile iron GS400 A351 - CF8M (AISI 316) aluminium-bronze Hastelloy® Monel® | 8 | 1 | shaft support | • Bronze |
| 3 | 1 | body seat (vulcanized not replaceable) | <ul style="list-style-type: none"> NBR (BUNA®) EPDM EPDM HT FKM (VITON®) | 9 | 2 | adjusting screw | • AISI 316 |
| 4 | 1 | shaft | <ul style="list-style-type: none"> AISI 303 AISI 316 (on request) | 10 | 1 | lower flange | • zinc plated steel |
| ◇5 | 5 | bush | • steel + PTFE | ◇11 | 1 | O.ring | • NBR (BUNA®) |
| ◇6 | 2 | shaft O.ring | <ul style="list-style-type: none"> NBR (BUNA®) FKM (VITON®) on request | ◇12 | 1 | O.ring | • NBR (BUNA®) |
| | | | | 13 | 6 | screw | • zinc plated steel |
| | | | | 14 | 1 | upper flange | • zinc plated steel |
| | | | | ◇15 | 1 | O.ring | • NBR (BUNA®) |
| | | | | ◇16 | 1 | O.ring | • NBR (BUNA®) |
| | | | | 17 | 4 | screw | • zinc plated steel |
| | | | | 18 | 1 | key | • steel |
| | | | | 19 | 3 | screw | • AISI 316 |
| | | | | ◇20 | 3 | O.ring | • PTFE |
| | | | | 21 | 3 | washer | • AISI 316 |

BVKA - Wafer **BLKA** - Lug
DN 40 - 800 • 1"1/2 - 32"

BVKX - Wafer
DN 50 - 250 • 2" - 10"

BLKX - Lug
DN 50 - 200 • 2" - 8"

Max working pressure:

BVKA/BLKA DN 40÷800: **20 Bar**
Flange: **PN 10-16 • A150**

BVKX DN 50÷250: **25 Bar**

BLKX DN 50÷200: **25 Bar**
Flange: **PN 16-25 • A150**

To be used also with vacuum

Design:

EN 593 ~ EN 736 ~ EN 12516 ~ EN 1092
ISO 5211 ~ DIN 3337 ~ API 609
PED 97/23/EC(cat III) Mod H

Face to face:

DIN EN 558-1 Series 20 ~ ISO 5752 Series 20
BS-5155 Series 4 ~ MSS-SP67
API609 cat.A ~ NFE 29305-1

Testing:

EN 12266-1 Rate A ~ ISO 5208 Rate A
DIN 3230 ~ API 598

Tag:

EN 19 ~ MSS SP-25



BVKA

All valves are supplied with a metallic label in compliance with PED directive.

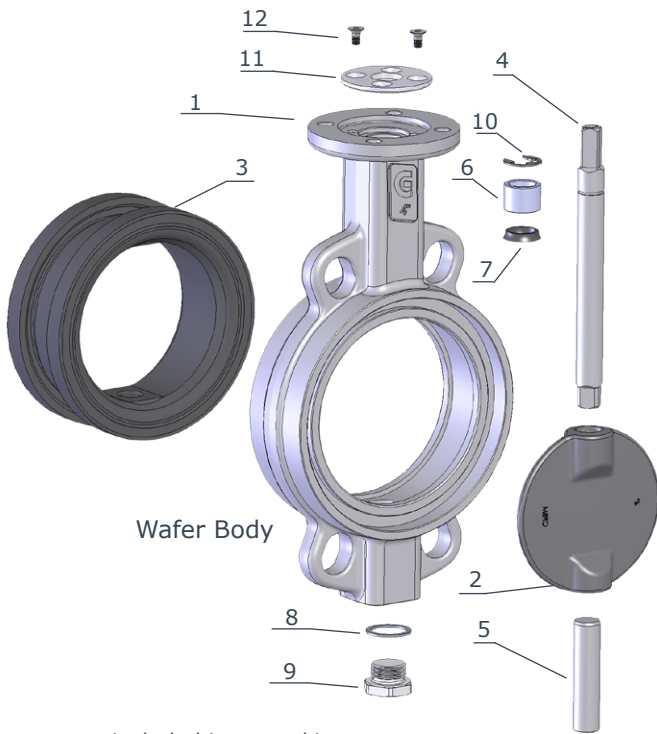
| BODY | | | BVKA/BLKA | BVKX | BLKX |
|------------------|-----------------------|------------------|-----------|--------|--------|
| material | references | standard coating | DN | DN | DN |
| Ductile iron | EN-GJS 400-15 (GS400) | Epoxy RAL 5009 | 40-800 | 50-250 | 50-200 |
| Carbon steel | ASTM A216-WCB | Epoxy RAL 9005 | 40-800 | 50-100 | 50-100 |
| Stainless steel | ASTM A351 CF8M (A316) | - | 40-800 | 50-100 | 50-100 |
| Aluminium-bronze | ASTM B148-C958.00 | - | 40-800 | 50-100 | 50-100 |

| DISC | | | BVKA/BLKA | BVKX | BLKX |
|------------------|-----------------------|------------------|-----------|--------|--------|
| material | references | standard coating | DN | DN | DN |
| Stainless steel | ASTM A351 CF8M (A316) | - | 40-800 | 50-250 | 50-200 |
| Aluminium-bronze | ASTM B148-C958.00 | - | 40-800 | 50-250 | 50-200 |
| Hastelloy® | ASTM A494 CX2MW | - | 40-800 | 50-250 | 50-200 |
| Monel® | ASTM A494 M35-1 | - | 40-800 | 50-250 | 50-200 |

| BODY RUBBER SEAT | | KA DN 40/150 replaceable - DN 200/800 vulcanized not replaceable KX DN 50/250 vulcanized not replaceable | | |
|------------------|--------------------|---|----------------|--|
| ref. | designation | trade name | working temp. | applications |
| NBR | nitrile rubber | BUNA® | -25°C / +100°C | oils, hydrocarbons, gas, air, water |
| EPDM | copolymer EPDM | - | -35°C / +130°C | water, sea water, steam, diluted acids |
| EPDM HT | copolimery EPDM HT | - | -30°C / +135°C | water, sea water, steam, diluted acids |
| FKM | fluoroelastomer | VITON® | -20°C / +200°C | oils, acids, hydrocabons |

On request can be supplied other materials as: LCB, Hastelloy, Monel, Uranus, Alloy, DUPLEX, Special steels, Special bronzes.
Coating on request: RILSAN®, Halar®, Chenisil®

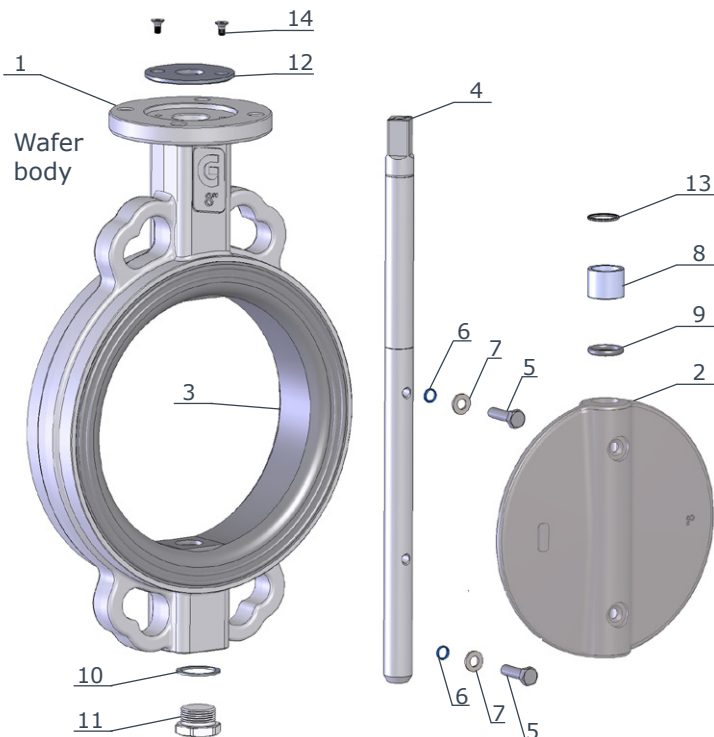
BVKA - Wafer BLKA - Lug
 DN 40 - 150 • 1 1/2" - 6"
 PN 10-16 • ANSI 150



| item | q.ty | part | material |
|------|------|-------------------------|--|
| 1 | 1 | body | <ul style="list-style-type: none"> ductile iron GS400 A216 - WCB A352 - LCB A351 - CF8M (AISI 316) aluminium-bronze Hastelloy® Monel® |
| 2 | 1 | disc | <ul style="list-style-type: none"> A351 - CF8M (AISI 316) aluminium-bronze Hastelloy® Monel® |
| ◇3 | 1 | body seat (replaceable) | <ul style="list-style-type: none"> NBR (BUNA®) EPDM EPDM HT FKM (VITON®) |
| 4 | 1 | upper shaft | <ul style="list-style-type: none"> AISI 430 AISI 316 (on request) |
| 5 | 1 | lower shaft | <ul style="list-style-type: none"> AISI 430 AISI 316 (on request) |
| ◇6 | 1 | bush | <ul style="list-style-type: none"> bronze |
| ◇7 | 1 | shaft packing | <ul style="list-style-type: none"> NBR (BUNA®) FKM (VITON®) (on request) |
| 8 | 1 | plug packing | <ul style="list-style-type: none"> aluminium |
| 9 | 1 | threaded plug | <ul style="list-style-type: none"> zinc plated steel |
| 10 | 1 | stop ring | <ul style="list-style-type: none"> steel |
| 11 | 1 | upper flange | <ul style="list-style-type: none"> IXEF (DN 40-150) |
| 12 | 2 | screw | <ul style="list-style-type: none"> zinc plated steel |

◇ parts included in spare kit

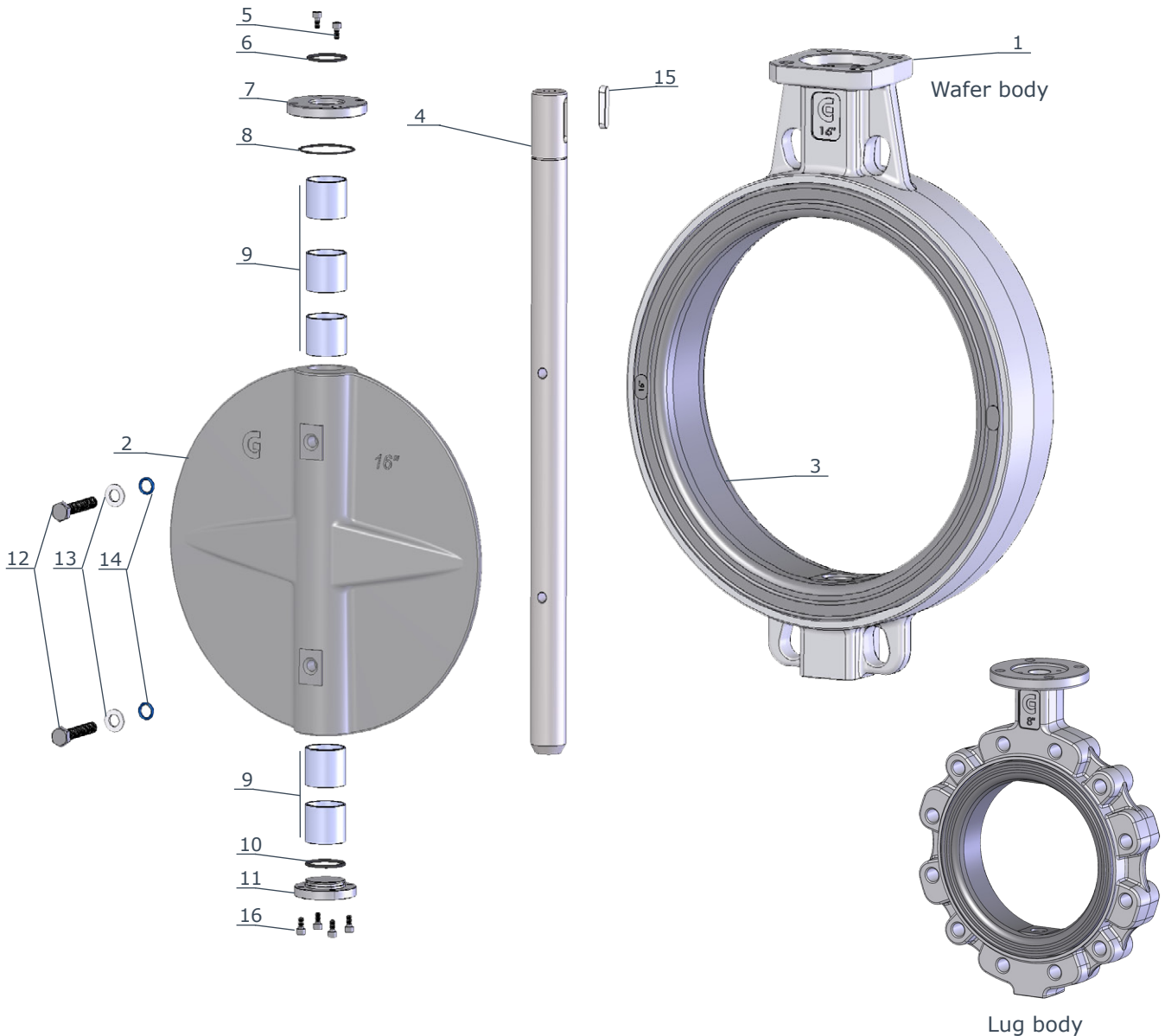
BVKA - Wafer BLKA - Lug
 DN 200 - 300 • 8" - 12"
 PN 10-16 • ANSI 150



| item | q.ty | part | material |
|------|------|--|--|
| 1 | 1 | body | <ul style="list-style-type: none"> ductile iron GS400 A216-WCB A352-LCB A351-CF8M (AISI 316) aluminium-bronze |
| 2 | 1 | disc | <ul style="list-style-type: none"> A351-CF8M (AISI 316) aluminium-bronze Hastelloy® Monel® |
| 3 | 1 | body seat (vulcanized not replaceable) | <ul style="list-style-type: none"> NBR (BUNA®) EPDM EPDM HT FKM (VITON®) |
| 4 | 1 | shaft | <ul style="list-style-type: none"> AISI 430 AISI 316 (on request) |
| 5 | 2 | screw | <ul style="list-style-type: none"> AISI 316 |
| ◇6 | 2 | O.Ring | <ul style="list-style-type: none"> PTFE |
| 7 | 2 | washer | <ul style="list-style-type: none"> AISI 316 |
| ◇8 | 1 | bush | <ul style="list-style-type: none"> bronze |
| ◇9 | 1 | shaft packing | <ul style="list-style-type: none"> NBR (BUNA®) FKM (VITON®) (on req.) |
| 10 | 1 | plug packing | <ul style="list-style-type: none"> aluminium |
| 11 | 1 | threaded plug | <ul style="list-style-type: none"> zinc plated steel |
| 12 | 1 | upper flange | <ul style="list-style-type: none"> aluminium |
| 13 | 1 | stop ring | <ul style="list-style-type: none"> steel |
| 14 | 2 | screw | <ul style="list-style-type: none"> zinc plated steel |

◇ parts included in spare kit

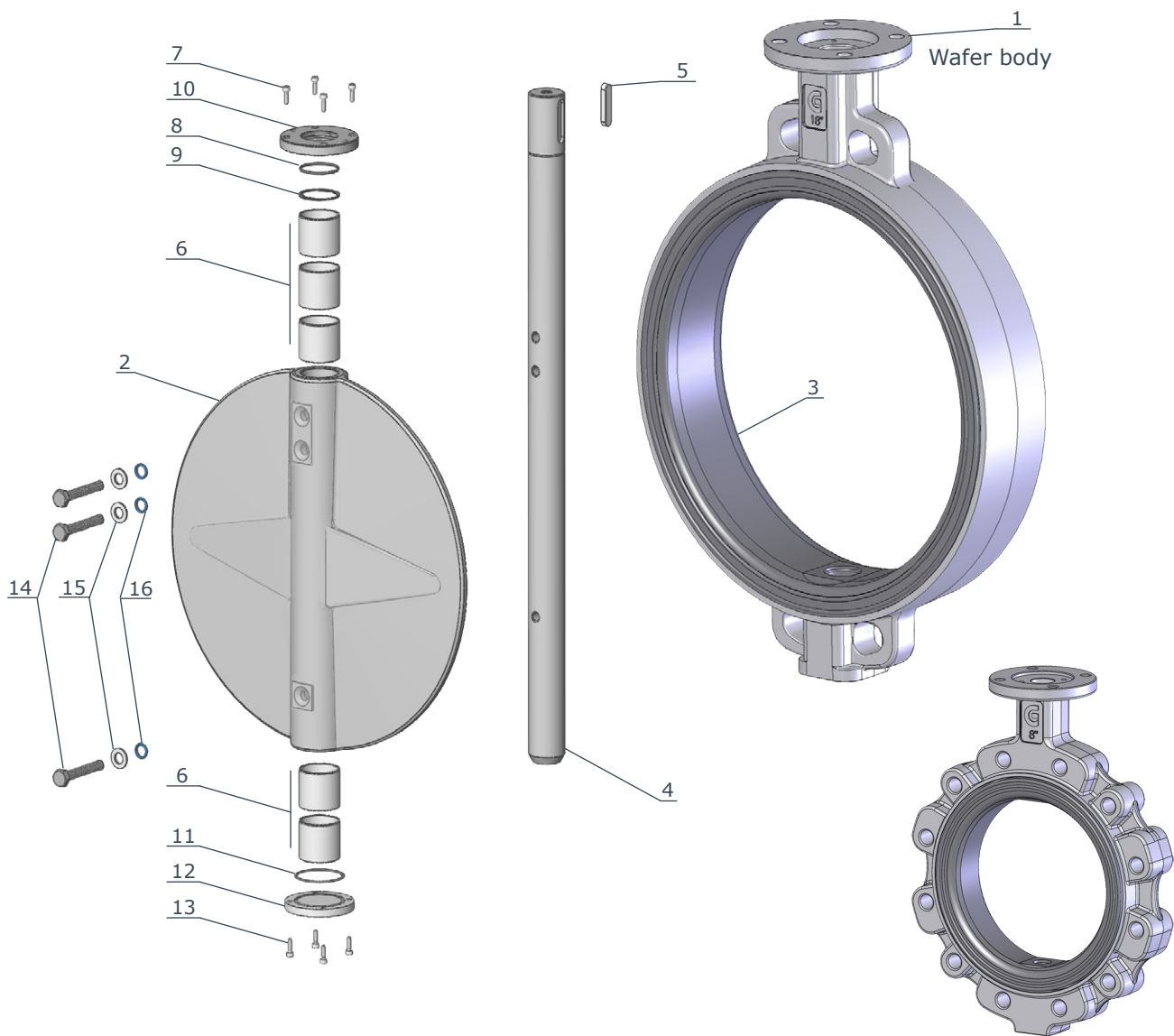
BVKA - Wafer BLKA - Lug
DN 350 - 400 • 14" - 16"
PN 10-16 • ANSI 150



◇ parts included in spare kit

| item | q.ty | part | material | item | q.ty | part | material |
|------|------|--|--|------|------|--------------|---|
| 1 | 1 | body | <ul style="list-style-type: none"> ductile iron GS400 A216-WCB A352-LCB A351-CF8M (AISI 316) aluminium-bronze | 5 | 2 | screw | <ul style="list-style-type: none"> zinc plated steel |
| 2 | 1 | disc | <ul style="list-style-type: none"> A351 - CF8M (AISI 316) aluminium-bronze Hastelloy® Monel® | ◇6 | 1 | O.ring | <ul style="list-style-type: none"> NBR (BUNA®) |
| 3 | 1 | body seat (vulcanized not replaceable) | <ul style="list-style-type: none"> NBR (BUNA®) EPDM EPDM HT FKM (VITON®) | 7 | 1 | upper flange | <ul style="list-style-type: none"> zinc plated steel |
| 4 | 1 | shaft | <ul style="list-style-type: none"> AISI 430 AISI 316 (on request) | ◇8 | 1 | O.ring | <ul style="list-style-type: none"> NBR (BUNA®) |
| | | | | ◇9 | 5 | bush | <ul style="list-style-type: none"> bronze |
| | | | | ◇10 | 1 | O.ring | <ul style="list-style-type: none"> NBR (BUNA®) |
| | | | | 11 | 1 | lower flange | <ul style="list-style-type: none"> zinc plated steel |
| | | | | 12 | 2 | screw | <ul style="list-style-type: none"> AISI 316 |
| | | | | 13 | 2 | washer | <ul style="list-style-type: none"> AISI 316 |
| | | | | ◇14 | 2 | O. ring | <ul style="list-style-type: none"> PTFE |
| | | | | 15 | 1 | key | <ul style="list-style-type: none"> steel C40 |
| | | | | 16 | 4 | screw | <ul style="list-style-type: none"> zinc plated steel |

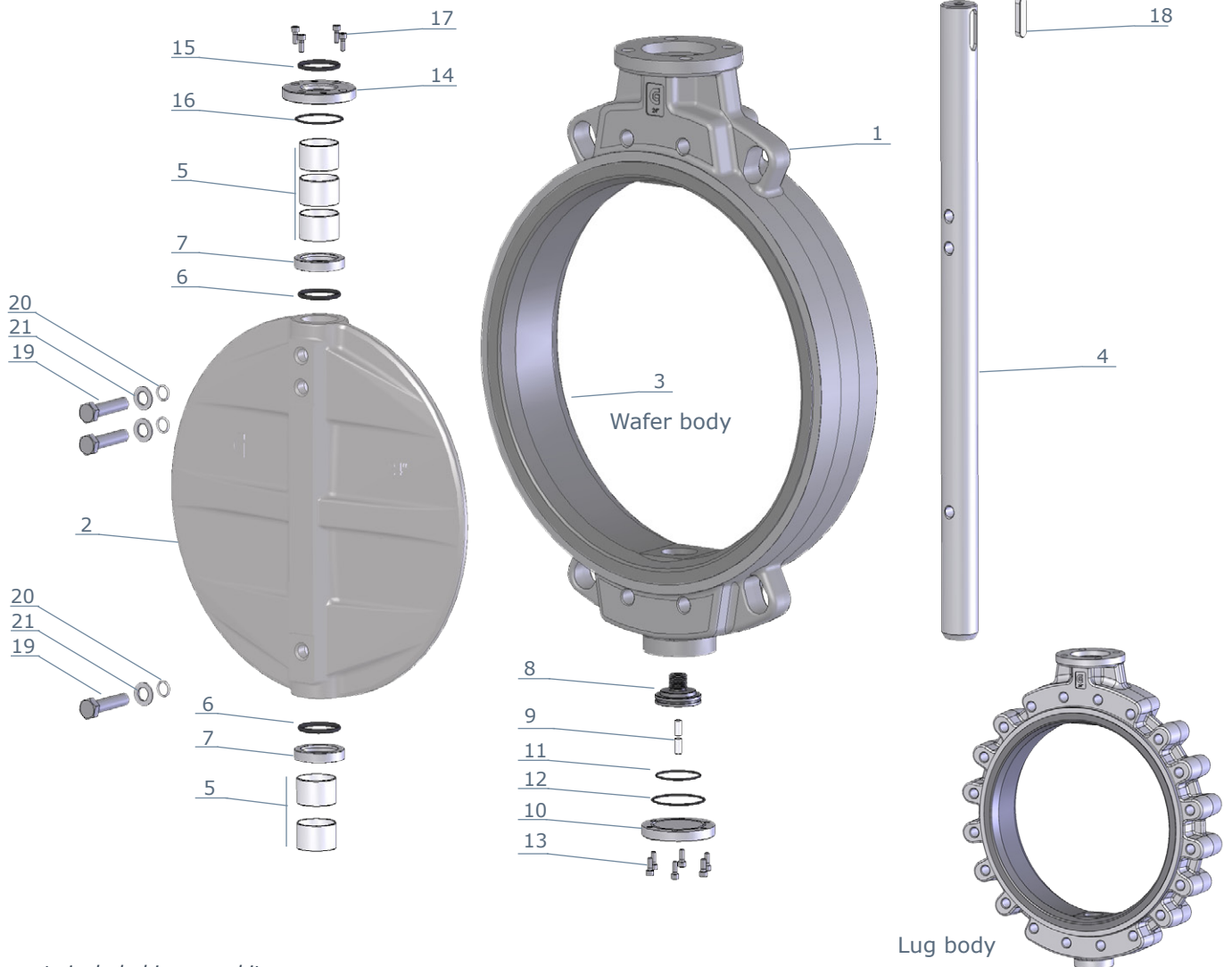
BVKA - Wafer **BLKA** - Lug
 DN 450 - 500 • 18" - 20"
 PN 10-16 • ANSI 150



◇ parts included in spare kit

| item | q.ty | part | material | item | q.ty | part | material |
|------|------|--|--|------|------|--------------|---------------------|
| 1 | 1 | body | <ul style="list-style-type: none"> ductile iron GS400 A216-WCB A352-LCB A351-CF8M (AISI 316) aluminium-bronze | ◇6 | 5 | bush | • steel + PTFE |
| 2 | 1 | disc | <ul style="list-style-type: none"> A351 - CF8M (AISI 316) aluminium-bronze Hastelloy® Monel® | 7 | 4 | screw | • zinc plated steel |
| 3 | 1 | body seat (vulcanized not replaceable) | <ul style="list-style-type: none"> NBR (BUNA®) EPDM EPDM HT FKM (VITON®) | ◇8 | 1 | O.ring | • NBR (BUNA®) |
| 4 | 1 | shaft | <ul style="list-style-type: none"> AISI 430 AISI 316 (on request) | 9 | 5 | stop ring | • steel |
| 5 | 1 | key | • steel C40 | 10 | 1 | upper flange | • zinc plated steel |
| | | | | ◇11 | 1 | O.ring | • NBR (BUNA®) |
| | | | | 12 | 1 | lower flange | • zinc plated steel |
| | | | | 13 | 4 | screw | • steel |
| | | | | 14 | 2 | screw | • AISI 316 |
| | | | | 15 | 2 | washer | • AISI 316 |
| | | | | ◇16 | 2 | O. ring | • PTFE |

BVKA - Wafer BLKA - Lug
DN 600 - 800 • 24" - 32"
PN 16 • ANSI 150



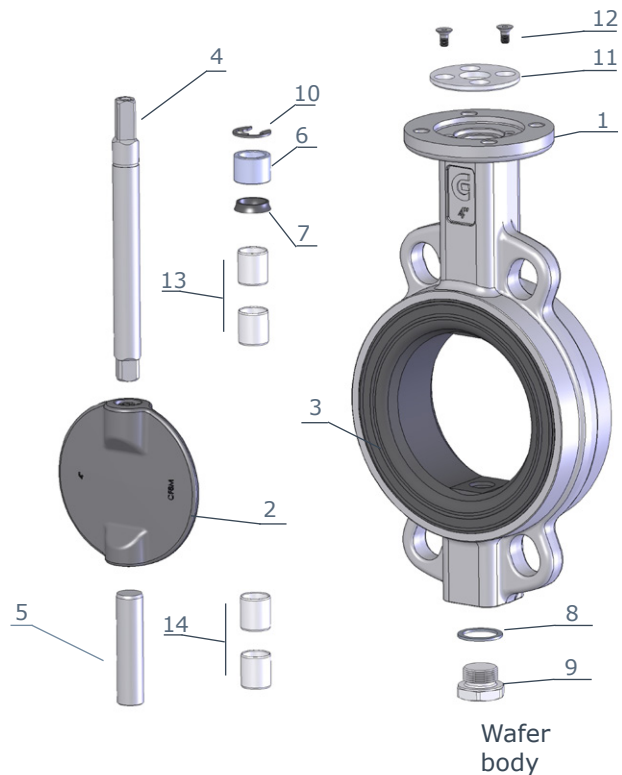
◇ parts included in spare kit

| item | q.ty | part | material | item | q.ty | part | material |
|------|------|--|--|------|------|-----------------|---|
| 1 | 1 | body | <ul style="list-style-type: none"> ductile iron GS400 A216-WCB A352-LCB A351-CF8M (AISI 316) aluminium-bronze | 7 | 2 | O.ring housing | <ul style="list-style-type: none"> AISI 316 |
| 2 | 1 | disc | <ul style="list-style-type: none"> ductile iron GS400 A351 - CF8M (AISI 316) aluminium-bronze Hastelloy® Monel® | 8 | 1 | shaft support | <ul style="list-style-type: none"> Bronze |
| 3 | 1 | body seat (vulcanized not replaceable) | <ul style="list-style-type: none"> NBR (BUNA®) EPDM EPDM HT FKM (VITON®) | 9 | 2 | adjusting screw | <ul style="list-style-type: none"> AISI 316 |
| 4 | 1 | shaft | <ul style="list-style-type: none"> AISI 303 AISI 316 (on request) | 10 | 1 | lower flange | <ul style="list-style-type: none"> zinc plated steel |
| ◇5 | 5 | bush | <ul style="list-style-type: none"> steel + PTFE | ◇11 | 1 | O.ring | <ul style="list-style-type: none"> NBR (BUNA®) |
| ◇6 | 2 | O.ring | <ul style="list-style-type: none"> NBR (BUNA®) FKM (VITON®) on request | ◇12 | 1 | O.ring | <ul style="list-style-type: none"> NBR (BUNA®) |
| | | | | 13 | 6 | screw | <ul style="list-style-type: none"> zinc plated steel |
| | | | | 14 | 1 | upper flange | <ul style="list-style-type: none"> zinc plated steel |
| | | | | ◇15 | 1 | O.ring | <ul style="list-style-type: none"> NBR (BUNA®) |
| | | | | ◇16 | 1 | O.ring | <ul style="list-style-type: none"> NBR (BUNA®) |
| | | | | 17 | 4 | screw | <ul style="list-style-type: none"> zinc plated steel |
| | | | | 18 | 1 | key | <ul style="list-style-type: none"> steel |
| | | | | 19 | 3 | screw | <ul style="list-style-type: none"> AISI 316 |
| | | | | ◇20 | 3 | O.ring | <ul style="list-style-type: none"> PTFE |
| | | | | 21 | 3 | washer | <ul style="list-style-type: none"> AISI 316 |

BVKX - Wafer BLKX - Lug

DN 50 - 100 • 2" - 4"
PN 16-25 • ANSI 150

| item | q.ty | part | material |
|------|------|--|--|
| 1 | 1 | body | <ul style="list-style-type: none"> ductile iron GS400 A216 - WCB A352 - LCB A351 - CF8M (AISI 316) |
| 2 | 1 | disc | <ul style="list-style-type: none"> A351 - CF8M (AISI 316) aluminium-bronze Hastelloy® Monel® |
| 3 | 1 | body seat (vulcanized not replaceable) | <ul style="list-style-type: none"> NBR (BUNA®) EPDM EPDM HT FKM (VITON®) |
| 4 | 1 | upper shaft | <ul style="list-style-type: none"> AISI 430 AISI 316 (on request) |
| 5 | 1 | lower shaft | <ul style="list-style-type: none"> AISI 430 AISI 316 (on request) |
| ◇6 | 1 | bush | bronze |
| ◇7 | 1 | shaft packing | <ul style="list-style-type: none"> NBR (BUNA®) FKM (VITON®) on req. |
| 8 | 1 | plug packing | aluminium |
| 9 | 1 | threaded plug | zinc plated steel |
| 10 | 1 | stop ring | steel |
| 11 | 1 | upper flange | IXEF (DN 50-100) |
| 12 | 2 | screw | zinc plated steel |
| ◇13 | 2 | upper bush | steel + PTFE |
| ◇14 | 2 | lower bush | steel + PTFE |



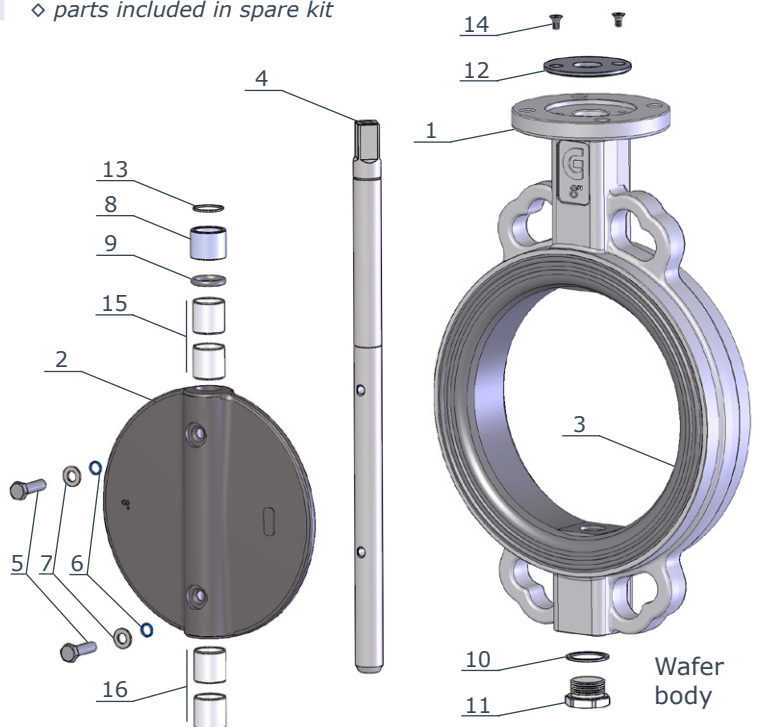
◇ parts included in spare kit

BVKX - Wafer

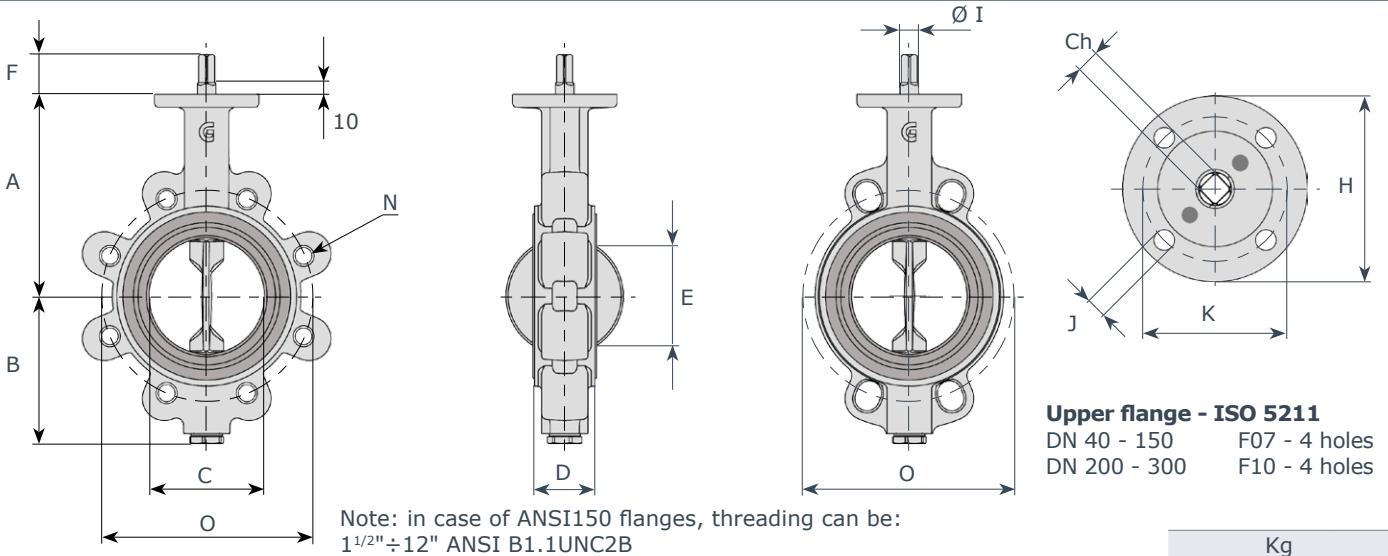
DN 125 - 250 • 5" - 10"
PN 16-25 • ANSI 150

| item | q.ty | part | material |
|------|------|--|--|
| 1 | 1 | body | ductile iron GS400 |
| 2 | 1 | disc | <ul style="list-style-type: none"> A351-CF8M (AISI 316) aluminium-bronze Hastelloy® Monel® |
| 3 | 1 | body seat (vulcanized not replaceable) | <ul style="list-style-type: none"> NBR (BUNA®) EPDM EPDM HT FKM (VITON®) |
| 4 | 1 | shaft | <ul style="list-style-type: none"> AISI 430 AISI 316 (on request) |
| 5 | 2 | screw | AISI 316 |
| ◇6 | 2 | O.Ring | PTFE |
| 7 | 2 | washer | AISI 316 |
| ◇8 | 1 | bush | bronze |
| ◇9 | 1 | shaft packing | <ul style="list-style-type: none"> NBR (BUNA®) FKM (VITON®) (on req.) |
| 10 | 1 | plug packing | aluminium |
| 11 | 1 | threaded plug | zinc plated steel |
| 12 | 1 | upper flange | <ul style="list-style-type: none"> IXEF (DN 125-150) aluminium (DN 200-250) |
| 13 | 1 | stop ring | steel |
| 14 | 2 | screw | zinc plated steel |
| ◇15 | 2 | upper bush | steel + PTFE |
| ◇16 | 2 | lower bush | steel + PTFE |

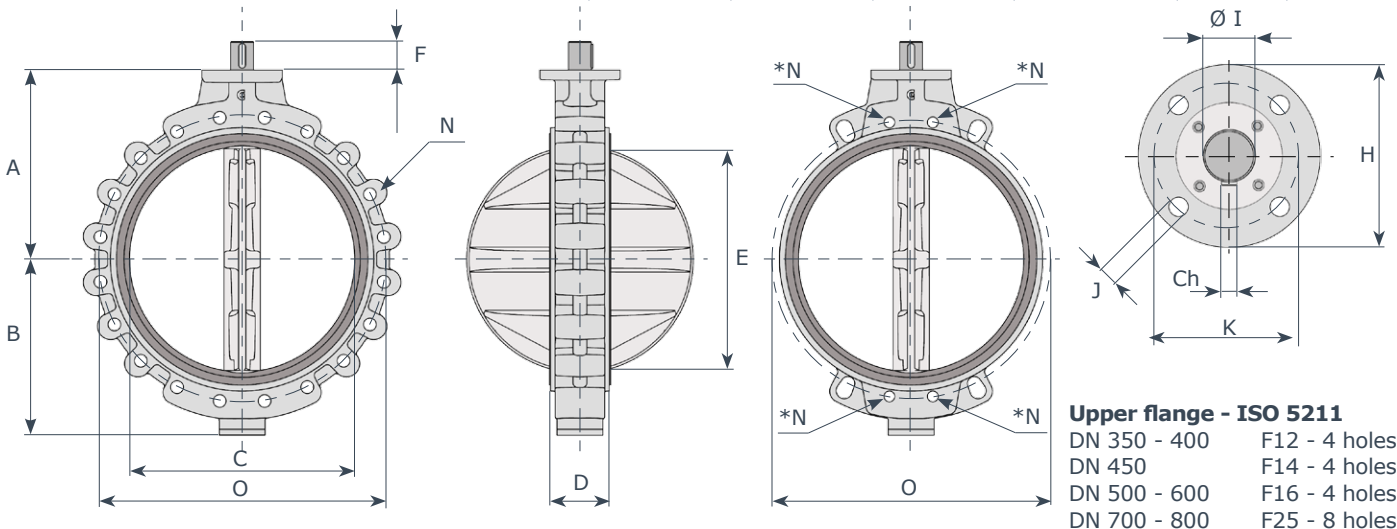
◇ parts included in spare kit



BVPD - Wafer BLPD - Lug | BVKI - Wafer BLKI - Lug | BVKA - Wafer BLKA - Lug

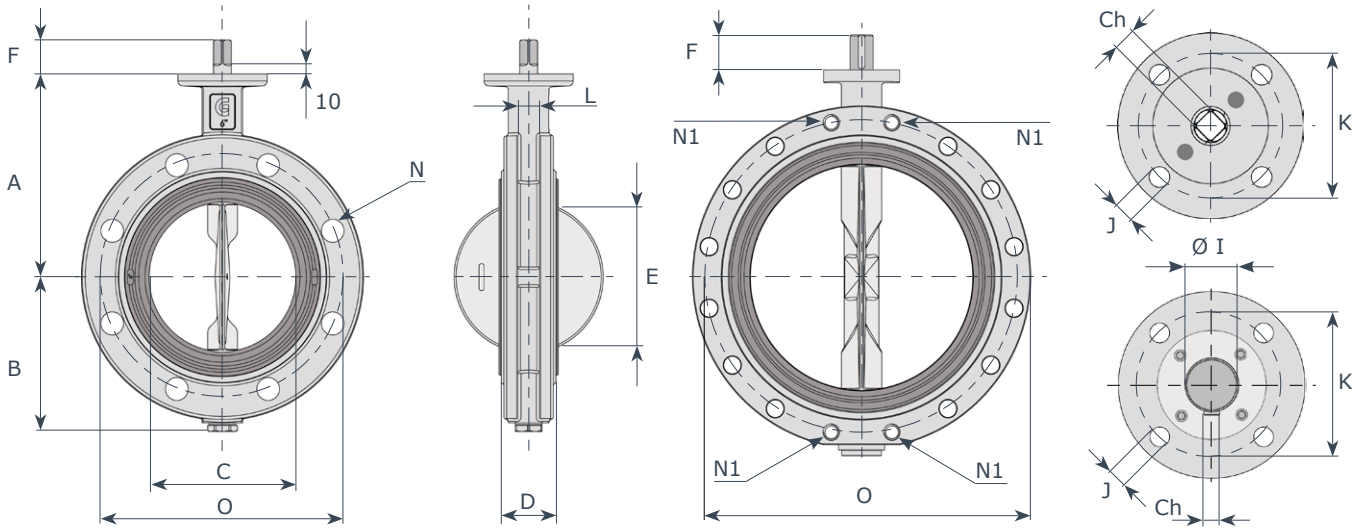


| DN | A | B | C | D | E | F | Ø I | Ch | H | K | J | Kg | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|----|-----|----|-----|----|-----|-----|----|------|----|-----|-------|----|-----|-------|----|-----|----------|----|-------|-------|------|-----|------|
| | | | | | | | | | | | | PN 6 | | | PN 10 | | | PN 16 | | | ANSI 150 | | | PD-KI | | KA | |
| | | | | | | | | | | | | N | n. | O | N | n. | O | N | n. | O | N | L | W | L | W | L | |
| 40 | 130 | 75 | 49 | 33 | 36 | 34 | 14 | 11 | 90 | 70 | 9 | - | - | - | M16 | 4 | 110 | M16 | 4 | 110 | M14 | 4 | 98.4 | 2.2 | 3 | 2.2 | 3 |
| 50 | 138 | 81 | 55 | 43 | 35 | 34 | 14 | 11 | 90 | 70 | 9 | M12 | 4 | 110 | M16 | 4 | 125 | M16 | 4 | 125 | M16 | 4 | 120.6 | 2.8 | 3.7 | 2.8 | 3.7 |
| 65 | 144 | 98 | 68 | 46 | 50 | 34 | 14 | 11 | 90 | 70 | 9 | M12 | 4 | 130 | M16 | 8 | 145 | M16 | 8 | 145 | M16 | 4 | 139.7 | 3.7 | 5.3 | 3.7 | 5.3 |
| 80 | 158 | 110 | 81 | 46 | 67 | 34 | 14 | 11 | 90 | 70 | 9 | M16 | 4 | 150 | M16 | 8 | 160 | M16 | 8 | 160 | M16 | 4 | 152.4 | 4 | 6.1 | 4 | 6.1 |
| 100 | 173 | 128 | 101 | 52 | 87 | 34 | 16 | 11 | 90 | 70 | 9 | M16 | 4 | 170 | M16 | 8 | 180 | M16 | 8 | 180 | M16 | 8 | 190.5 | 6 | 8.1 | 6 | 8.1 |
| 125 | 186 | 140 | 126 | 56 | 113 | 34 | 18 | 14 | 90 | 70 | 9 | M16 | 8 | 200 | M16 | 8 | 210 | M16 | 8 | 210 | M20 | 8 | 215.9 | 7.2 | 9.7 | 7.2 | 9.7 |
| 150 | 202 | 155 | 150 | 56 | 140 | 34 | 18 | 14 | 90 | 70 | 9 | M16 | 8 | 225 | M20 | 8 | 240 | M20 | 8 | 240 | M20 | 8 | 241.3 | 9.1 | 11.5 | 9.5 | 11.8 |
| 200 | 240 | 190 | 200 | 60 | 191 | 38 | 22 | 17 | 125 | 102 | 11 | M16 | 8 | 280 | M20 | 8 | 295 | M20 | 12 | 295 | M20 | 8 | 298.4 | 14 | 27 | 16 | 29 |
| 250 | 270 | 220 | 250 | 68 | 241 | 38 | 30 | 22 | 125 | 102 | 11 | M16 | 12 | 335 | M20 | 12 | 350 | M24 | 12 | 355 | M22 | 12 | 361.9 | 22 | 34 | 26 | 38 |
| 300 | 300 | 247 | 298 | 78 | 289 | 38 | 30 | 22 | 125 | 102 | 11 | M20 | 12 | 395 | M20 | 12 | 400 | M24 | 12 | 410 | M22 | 12 | 431.8 | 32 | 49 | 36 | 53 |



| DN | A | B | C | D | E | F | Ø I | Ch | H | K | J | Kg | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|----|------|----|-----|-------|----|-----|-------|----|-----|----------|----|-------|-------|-----|-----|-----|
| | | | | | | | | | | | | PN 6 | | | PN 10 | | | PN 16 | | | ANSI 150 | | | PD-KI | | KA | |
| | | | | | | | | | | | | N | n. | O | N | n. | O | N | n. | O | N | L | W | L | W | L | |
| 350 | 330 | 280 | 341 | 78 | 332 | 60 | 35 | 10 | 150 | 125 | 14 | M20 | 12 | 445 | M20 | 16 | 460 | M24 | 16 | 470 | M24 | 12 | 476.2 | 42 | 62 | 55 | 75 |
| 400 | 355 | 305 | 390 | 102 | 376 | 60 | 40 | 12 | 150 | 125 | 14 | M20 | 16 | 495 | M24 | 16 | 515 | M27 | 16 | 525 | M27 | 16 | 539.7 | 76 | 90 | 94 | 104 |
| 450 | 400 | 343 | 444 | 114 | 430 | 60 | 45 | 12 | 175 | 140 | 18 | M20 | 16 | 550 | M24 | 20 | 565 | M27 | 20 | 585 | M27 | 16 | 577.8 | 110 | 170 | 135 | 195 |
| 500 | 422 | 366 | 495 | 127 | 479 | 60 | 45 | 12 | 210 | 165 | 22 | M20 | 20 | 600 | M24 | 20 | 620 | M30 | 20 | 650 | M27 | 20 | 635.0 | 140 | 180 | 165 | 205 |
| 600 | 495 | 460 | 595 | 154 | 575 | 75 | 60 | 18 | 210 | 165 | 22 | M24 | 20 | 705 | M27 | 20 | 725 | M33 | 20 | 770 | M33 | 20 | 749.3 | 220 | 290 | 220 | 290 |
| 700 | 550 | 506 | 690 | 165 | 670 | 90 | 70 | 20 | 300 | 254 | 18 | M24 | 24 | 810 | M27 | 24 | 840 | M33 | 24 | 840 | M33 | 28 | 863.6 | 300 | 415 | 300 | 415 |
| 800 | 640 | 590 | 780 | 190 | 757 | 100 | 80 | 22 | 300 | 254 | 18 | M27 | 24 | 920 | M30 | 24 | 950 | M36 | 24 | 950 | M39 | 28 | 977.9 | 444 | 570 | 465 | 570 |

BFKI - Double Flange



Upper flange - ISO 5211

DN 80 - 150 F07 - 4 holes
 DN 200 - 300 F10 - 4 holes

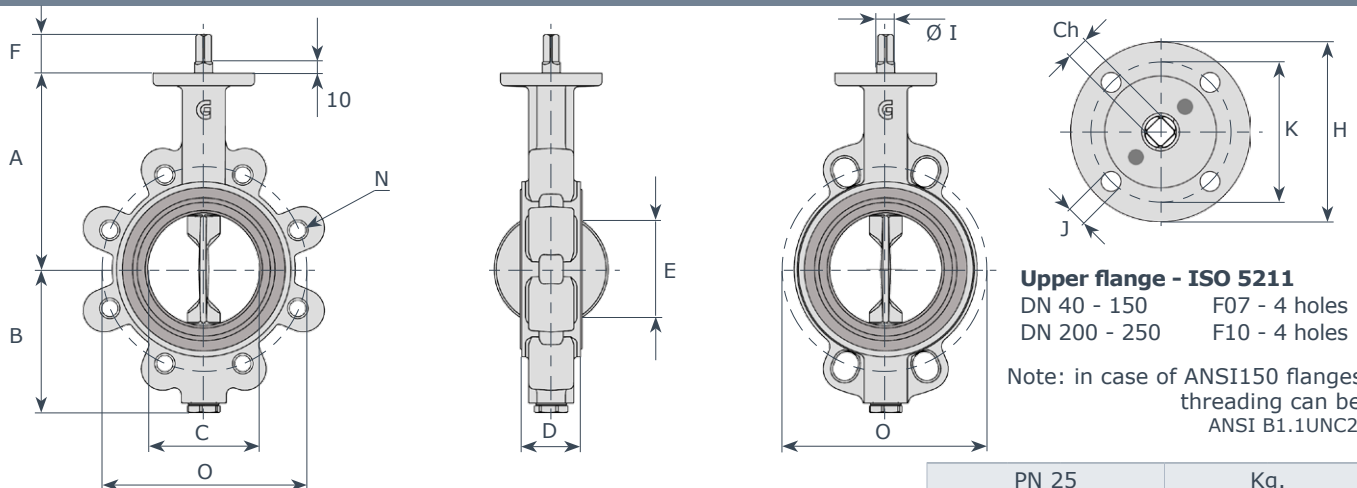
DN 350 - 400
 DN 450
 DN 500 - 600

F12 - 4 holes
 F14 - 4 holes
 F16 - 4 holes

Note: in case of ANSI150 flanges, threading can be: 16"÷24" ANSI B1.1-8 UNC2B

| DN | " | A | B | C | D | E | F | Ø I | Ch | K | J | L | PN 6 | | | | PN 10 | | | | PN 16 | | | | ANSI 150 | | | | Kg. |
|-----|----|-----|-----|-----|-----|-----|----|-----|----|-----|----|----|------|-----|----|-----|-------|-----|----|-----|-------|-----|----|-----|----------|-----|----|-------|-----|
| | | | | | | | | | | | | | N | N1 | n. | O | N | N1 | n. | O | N | N1 | n. | O | N | N1 | n. | O | |
| 80 | 3 | 158 | 110 | 81 | 46 | 67 | 34 | 14 | 11 | 70 | 9 | 14 | 18 | -- | 4 | 150 | 18 | -- | 8 | 160 | 18 | -- | 8 | 160 | 18 | -- | 4 | 152.4 | 6.5 |
| 100 | 4 | 173 | 128 | 101 | 52 | 87 | 34 | 16 | 11 | 70 | 9 | 16 | 18 | -- | 4 | 170 | 18 | -- | 8 | 180 | 18 | -- | 8 | 180 | 18 | -- | 8 | 190.5 | 8 |
| 125 | 5 | 186 | 140 | 126 | 56 | 113 | 34 | 18 | 14 | 70 | 9 | 18 | 18 | -- | 8 | 200 | 18 | -- | 8 | 210 | 18 | -- | 8 | 210 | 22 | -- | 8 | 215.9 | 10 |
| 150 | 6 | 202 | 155 | 150 | 56 | 140 | 34 | 18 | 14 | 70 | 9 | 18 | 18 | -- | 8 | 225 | 22 | -- | 8 | 240 | 22 | -- | 8 | 240 | 22 | -- | 8 | 241.3 | 12 |
| 200 | 8 | 240 | 190 | 200 | 60 | 191 | 38 | 22 | 17 | 102 | 11 | 22 | 18 | -- | 8 | 280 | 22 | -- | 8 | 295 | 22 | -- | 12 | 295 | 22 | -- | 8 | 298.4 | 20 |
| 250 | 10 | 270 | 220 | 250 | 68 | 241 | 38 | 30 | 22 | 102 | 11 | 30 | 18 | -- | 12 | 335 | 22 | -- | 12 | 350 | 25 | -- | 12 | 355 | 25 | -- | 12 | 361.9 | 30 |
| 300 | 12 | 300 | 247 | 298 | 78 | 289 | 38 | 30 | 22 | 102 | 11 | 30 | 22 | -- | 12 | 395 | 22 | -- | 12 | 400 | 25 | -- | 12 | 410 | 25 | -- | 12 | 431.8 | 46 |
| 350 | 14 | 330 | 285 | 341 | 78 | 332 | 60 | 35 | 10 | 125 | 14 | 35 | 22 | -- | 12 | 445 | 22 | -- | 16 | 460 | 25 | -- | 16 | 470 | 28 | -- | 12 | 476.2 | 65 |
| 400 | 16 | 355 | 310 | 390 | 102 | 376 | 60 | 40 | 12 | 125 | 14 | 40 | 22 | M20 | 16 | 495 | 25 | M24 | 16 | 515 | 30 | M27 | 16 | 525 | 30 | M27 | 16 | 539.7 | 85 |
| 450 | 18 | 400 | 343 | 444 | 114 | 430 | 60 | 45 | 12 | 140 | 18 | 45 | 22 | M20 | 16 | 550 | 25 | M24 | 20 | 565 | 30 | M27 | 20 | 585 | 30 | M27 | 16 | 577.8 | 120 |
| 500 | 20 | 422 | 375 | 495 | 127 | 479 | 60 | 45 | 12 | 165 | 22 | 45 | 22 | M20 | 20 | 600 | 25 | M24 | 20 | 620 | 33 | M30 | 20 | 650 | 30 | M27 | 20 | 635.0 | 180 |
| 600 | 24 | 495 | 460 | 595 | 154 | 575 | 75 | 60 | 18 | 165 | 22 | 60 | 25 | M24 | 20 | 705 | 30 | M27 | 20 | 725 | 36 | M33 | 20 | 770 | 36 | M33 | 20 | 749.3 | 270 |

BVKX - Wafer BLKX - Lug



Upper flange - ISO 5211

DN 40 - 150 F07 - 4 holes
 DN 200 - 250 F10 - 4 holes

Note: in case of ANSI150 flanges, threading can be: ANSI B1.1UNC2B

| DN | " | A | B | C | D | E | F | Ø I | Ch | H | K | J | PN 25 | | | Kg. | |
|-----|-------|-----|-----|-----|----|-----|----|-----|----|-----|-----|----|-------|----|-----|-------|------|
| | | | | | | | | | | | | | N | n. | O | wafer | lug |
| 50 | 2 | 138 | 81 | 55 | 43 | 35 | 34 | 14 | 11 | 90 | 70 | 9 | M16 | 4 | 125 | 2.8 | 3.7 |
| 65 | 2 1/2 | 144 | 98 | 68 | 46 | 50 | 34 | 14 | 11 | 90 | 70 | 9 | M16 | 8 | 145 | 3.7 | 5.3 |
| 80 | 3 | 158 | 110 | 81 | 46 | 67 | 34 | 14 | 11 | 90 | 70 | 9 | M16 | 8 | 160 | 4 | 6.1 |
| 100 | 4 | 173 | 128 | 101 | 52 | 87 | 34 | 16 | 11 | 90 | 70 | 9 | M20 | 8 | 190 | 6 | 8.1 |
| 125 | 5 | 186 | 140 | 126 | 56 | 113 | 34 | 18 | 14 | 90 | 70 | 9 | M24 | 8 | 220 | 7.2 | 9.7 |
| 150 | 6 | 202 | 155 | 150 | 56 | 140 | 34 | 18 | 14 | 90 | 70 | 9 | M24 | 8 | 250 | 9.5 | 11.8 |
| 200 | 8 | 240 | 190 | 200 | 60 | 191 | 38 | 22 | 17 | 125 | 102 | 11 | M24 | 12 | 310 | 16 | 29 |
| 250 | 10 | 270 | 220 | 250 | 68 | 241 | 38 | 30 | 22 | 125 | 102 | 11 | -- | -- | 370 | 25 | -- |

PD Series - Torque values - Nm - safety factor excluded

| Seat body NBR/EPDM/Carboxide | | | | | | fluid H ₂ O - 20°C | | | Seat body FKM/natural rubber | | | | | | fluid H ₂ O - 20°C | | |
|------------------------------|----|----|-----|-----|-----|-------------------------------|-----|-----|------------------------------|----|----|-----|-----|-----|-------------------------------|-----|-----|
| working pressure BAR | | | | | | | | | working pressure BAR | | | | | | | | |
| DN | 0 | 6 | DN | 0 | 6 | DN | 0 | 6 | DN | 0 | 6 | DN | 0 | 6 | DN | 0 | 6 |
| 50/65 | 4 | 6 | 150 | 40 | 49 | 350 | 345 | 370 | 50/65 | 6 | 9 | 150 | 52 | 65 | 350 | 465 | 495 |
| 80 | 5 | 7 | 200 | 47 | 58 | 400 | 382 | 405 | 80 | 7 | 11 | 200 | 62 | 78 | 400 | 515 | 540 |
| 100 | 8 | 12 | 250 | 89 | 100 | 450 | 427 | 465 | 100 | 11 | 16 | 250 | 120 | 134 | 450 | 578 | 627 |
| 125 | 22 | 31 | 300 | 167 | 180 | 500 | 450 | 500 | 125 | 29 | 42 | 300 | 225 | 241 | 500 | 607 | 675 |

KI Series - Torque values - Nm - safety factor excluded

| Seat body NBR/EPDM | | | | | fluid H ₂ O - 20°C | | | | | | | | | |
|----------------------|----|----|----|----|-------------------------------|-----|-----|-----|-----|----------------------|------|------|------|------|
| working pressure BAR | | | | | working pressure BAR | | | | | working pressure BAR | | | | |
| DN | 0 | 6 | 10 | 16 | DN | 0 | 6 | 10 | 16 | DN | 0 | 6 | 10 | 16 |
| 40 | 11 | 11 | 13 | 14 | 150 | 55 | 60 | 84 | 90 | 450 | 480 | 520 | 720 | 1050 |
| 50 | 11 | 12 | 13 | 15 | 200 | 100 | 107 | 180 | 210 | 500 | 550 | 600 | 810 | 1600 |
| 65 | 11 | 16 | 16 | 18 | 250 | 160 | 175 | 220 | 320 | 600 | 1650 | 1960 | 2300 | - |
| 80 | 20 | 30 | 36 | 40 | 300 | 260 | 270 | 320 | 390 | 700 | 2270 | 3000 | 3350 | - |
| 100 | 40 | 43 | 45 | 48 | 350 | 410 | 450 | 590 | 850 | 800 | 3200 | 3400 | 4000 | - |
| 125 | 48 | 52 | 52 | 70 | 400 | 450 | 480 | 650 | 900 | | | | | |

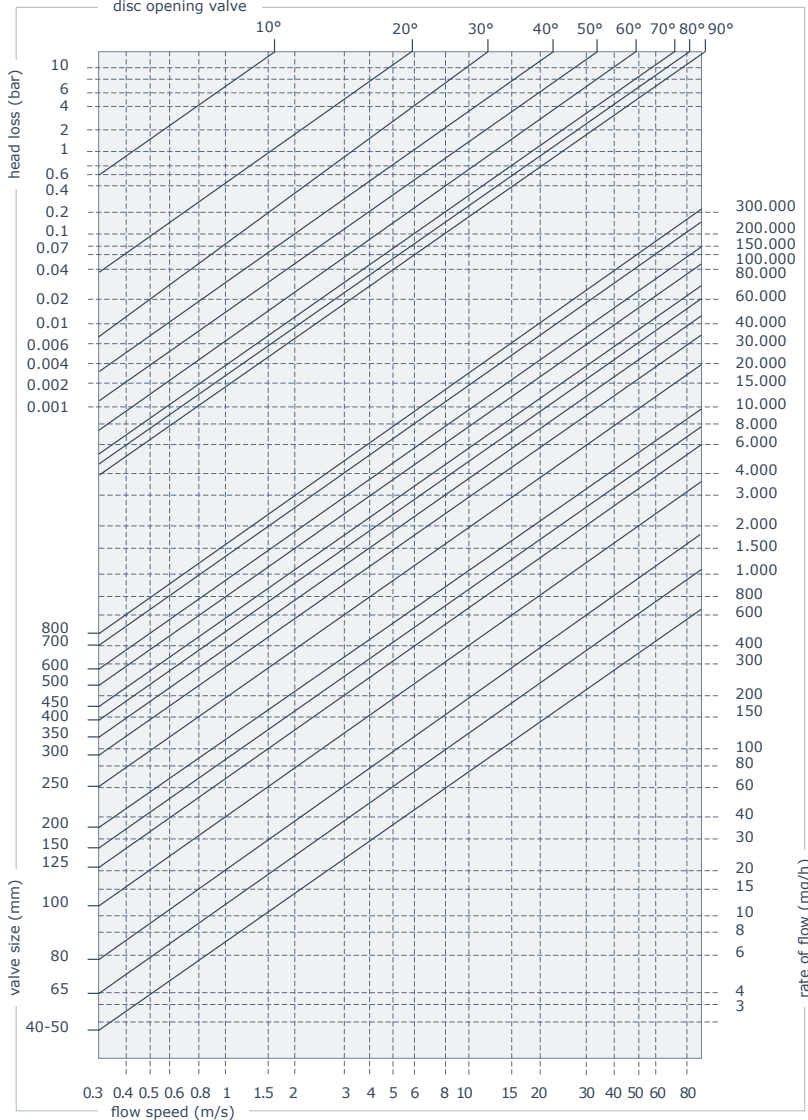
| Seat body FKM/natural rubber | | | | | fluid H ₂ O - 20°C | | | | | | | | | |
|------------------------------|----|----|----|----|-------------------------------|-----|-----|-----|------|----------------------|------|------|------|------|
| working pressure BAR | | | | | working pressure BAR | | | | | working pressure BAR | | | | |
| DN | 0 | 6 | 10 | 16 | DN | 0 | 6 | 10 | 16 | DN | 0 | 6 | 10 | 16 |
| 40 | 14 | 14 | 16 | 17 | 150 | 66 | 72 | 101 | 108 | 450 | 580 | 630 | 880 | 1310 |
| 50 | 14 | 15 | 16 | 18 | 200 | 120 | 129 | 216 | 252 | 500 | 660 | 740 | 990 | 2020 |
| 65 | 14 | 20 | 20 | 22 | 250 | 192 | 210 | 264 | 386 | 600 | 1980 | 2380 | 2760 | - |
| 80 | 24 | 36 | 44 | 48 | 300 | 312 | 330 | 396 | 480 | 700 | 2750 | 3680 | 4040 | - |
| 100 | 48 | 52 | 54 | 58 | 350 | 498 | 545 | 728 | 1050 | 800 | 3880 | 4120 | 4860 | - |
| 125 | 60 | 62 | 64 | 84 | 400 | 550 | 584 | 798 | 1120 | | | | | |

KA/KX Series - Torque values - Nm - safety factor excluded

| Seat body NBR/EPDM | | | | | | | fluid H ₂ O - 20°C | | | | | | | |
|----------------------|-----|-----|-----|-----|-----|-----|-------------------------------|------|------|------|-------|-------|--|--|
| working pressure BAR | | | | | | | working pressure BAR | | | | | | | |
| DN | 0 | 6 | 10 | 16 | 20 | 25 | DN | 0 | 6 | 10 | 16 | 20 | | |
| 40 | 12 | 12 | 14 | 15 | 15 | - | 300 | 272 | 294 | 362 | 410 | 429 | | |
| 50 | 12 | 13 | 14 | 16 | 17 | 20 | 350 | 431 | 557 | 714 | 1071 | 1122 | | |
| 65 | 12 | 17 | 17 | 19 | 20 | 31 | 400 | 683 | 767 | 893 | 1470 | 1540 | | |
| 80 | 21 | 32 | 38 | 42 | 44 | 49 | 450 | 1000 | 1208 | 1313 | 1995 | 2090 | | |
| 100 | 42 | 45 | 47 | 50 | 53 | 65 | 500 | 1155 | 1418 | 1733 | 2625 | 2750 | | |
| 125 | 50 | 55 | 55 | 74 | 77 | 82 | 600 | 2300 | 2800 | 3700 | 4800 | 5280 | | |
| 150 | 58 | 63 | 88 | 95 | 99 | 103 | 700 | 3800 | 5050 | 5600 | 6900 | 7590 | | |
| 200 | 105 | 112 | 189 | 221 | 231 | 320 | 800 | 5200 | 6800 | 7900 | 10300 | 11330 | | |
| 250 | 175 | 190 | 231 | 336 | 352 | 440 | | | | | | | | |

Head losses

notes: values indicated in this page is only for information
disc opening valve



Formulae for calculation of rate flow

Liquids:
$$Q = \frac{KV}{\sqrt{\frac{PS}{\Delta P}}}$$

Q rate of flow (m³/h)
PS specific gravity (water=1)
ΔP pressure drop (bar)

Gas:
$$Q = 28.5 \frac{KV}{\sqrt{\frac{PS}{P_2 \cdot \Delta P}}}$$

Q rate of flow (m³/h)
PS specific gravity (air=1)
ΔP pressure drop (bar) (less than 1/2 inlet pressure)
P₂ outlet pressure

Steam:
$$Q = 22.5 \cdot KV \cdot \sqrt{P_2 \cdot \Delta P}$$

Q rate of flow (Kg/h)
ΔP pressure drop (bar) (less than 1/2 inlet pressure)
P₂ outlet pressure

Calculation of the rate of flow equivalent to H₂O:

$$Q_e = Q \sqrt{\frac{d}{1000}}$$

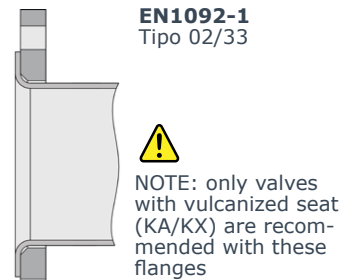
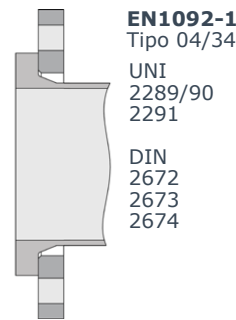
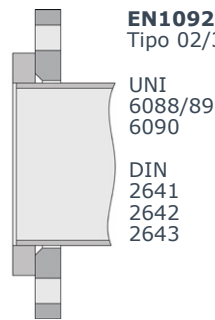
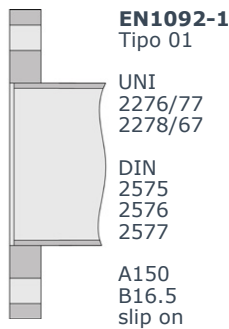
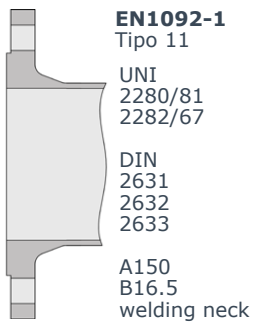
For different liquid, gas or steam head losses are determined by equivalent water of flow, as follow:

Q_e equivalent water flow (mc/l o l/s)
Q fluid flow (mc/l o l/s)
d fluid specific gravity (Kg/mc)

Values KV (CV = 1,16 KV)

| angle | 40/50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 |
|-------|-------|-----|-----|-----|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| 5° | - | - | - | - | - | - | - | - | - | 53 | 68 | 85 | 106 | 151 | 206 | 270 |
| 10° | - | - | - | - | - | - | - | 21 | 49 | 123 | 161 | 199 | 246 | 354 | 482 | 629 |
| 15° | 0,2 | 0,6 | 1,8 | 2,4 | 4,2 | 5,6 | 14 | 80 | 188 | 228 | 299 | 369 | 457 | 658 | 900 | 1168 |
| 20° | 0,9 | 2,5 | 5,2 | 9,5 | 15 | 23 | 110 | 156 | 280 | 315 | 412 | 511 | 630 | 907 | 1234 | 2010 |
| 25° | 3 | 6,1 | 12 | 22 | 38 | 61 | 125 | 225 | 354 | 457 | 597 | 740 | 914 | 1314 | 1789 | 2735 |
| 30° | 6,1 | 11 | 21 | 39 | 69 | 112 | 211 | 310 | 381 | 661 | 863 | 1069 | 1320 | 1899 | 2585 | 5080 |
| 35° | 9,9 | 18 | 33 | 60 | 105 | 166 | 303 | 433 | 521 | 890 | 1162 | 1440 | 1778 | 2560 | 3484 | 6254 |
| 40° | 15 | 27 | 49 | 88 | 148 | 228 | 405 | 591 | 742 | 1184 | 1547 | 1916 | 2366 | 3407 | 4638 | 9700 |
| 45° | 21 | 38 | 68 | 121 | 199 | 303 | 528 | 774 | 987 | 1552 | 2028 | 2512 | 3102 | 4466 | 6079 | 11581 |
| 50° | 29 | 51 | 91 | 159 | 262 | 394 | 679 | 988 | 1252 | 2008 | 2620 | 3248 | 4010 | 5774 | 7860 | 15000 |
| 55° | 39 | 68 | 119 | 207 | 338 | 505 | 863 | 1247 | 1571 | 2548 | 3318 | 4123 | 5090 | 7329 | 9976 | 17765 |
| 60° | 53 | 90 | 156 | 269 | 434 | 641 | 1085 | 1591 | 2059 | 3225 | 4202 | 5218 | 6442 | 9277 | 12627 | 22200 |
| 65° | 72 | 121 | 209 | 357 | 565 | 820 | 1364 | 2065 | 2807 | 3983 | 5196 | 6445 | 7957 | 11457 | 15595 | 26077 |
| 70° | 92 | 161 | 283 | 487 | 768 | 1097 | 1788 | 2715 | 3744 | 5195 | 6775 | 8412 | 10377 | 14944 | 20341 | 34500 |
| 75° | 109 | 209 | 381 | 662 | 1059 | 1507 | 2425 | 3625 | 4935 | 6964 | 9084 | 11269 | 13912 | 20032 | 27267 | 39546 |
| 80° | 115 | 240 | 457 | 815 | 1303 | 1861 | 3043 | 4768 | 6831 | 9301 | 12142 | 15048 | 18578 | 26752 | 36413 | 47560 |
| 85° | 115 | 253 | 502 | 906 | 1457 | 2008 | 3642 | 4890 | 8230 | 10280 | 13408 | 16632 | 20533 | 29568 | 40246 | 52566 |
| 90° | 116 | 257 | 508 | 925 | 1492 | 2168 | 3838 | 5010 | 9233 | 10792 | 14082 | 17840 | 22024 | 31715 | 43166 | 56381 |

Flanges to be used



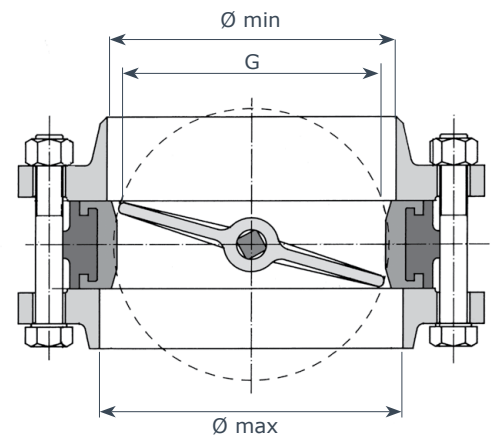
Bolts and rods dimensions

| DN | Wafer valves | | | | | | | | | | | |
|-----|--------------|---------|----|---------|---------|----|---------|---------|----|----------|---------|----|
| | PN 6 | | | PN 10 | | | PN 16 | | | ANSI 150 | | |
| | Bolts | Rods | N° | Bolts | Rods | N° | Bolts | Rods | N° | Bolts | Rods | N° |
| 40 | M12x80 | M12x90 | 4 | M16x90 | M16x100 | 4 | M16x90 | M16x100 | 4 | M14x90 | M14x110 | 4 |
| 50 | M12x90 | M12x100 | 4 | M16x100 | M16x120 | 4 | M16x100 | M16x120 | 4 | M16x100 | M16x130 | 4 |
| 65 | M12x100 | M12x110 | 4 | M16x110 | M16x130 | 8 | M16x110 | M16x130 | 8 | M16x110 | M16x140 | 4 |
| 80 | M16x100 | M16x120 | 4 | M16x110 | M16x130 | 8 | M16x110 | M16x130 | 8 | M16x120 | M16x150 | 4 |
| 100 | M16x110 | M16x120 | 4 | M16x120 | M16x140 | 8 | M16x120 | M16x140 | 8 | M16x120 | M16x150 | 8 |
| 125 | M16x120 | M16x140 | 8 | M16x120 | M16x150 | 8 | M16x120 | M16x150 | 8 | M20x130 | M20x160 | 8 |
| 150 | M16x120 | M16x140 | 8 | M20x130 | M20x160 | 8 | M20x130 | M20x160 | 8 | M20x140 | M20x160 | 8 |
| 200 | M16x130 | M16x150 | 8 | M20x140 | M20x170 | 8 | M20x140 | M20x170 | 12 | M20x150 | M20x170 | 8 |
| 250 | M16x140 | M16x160 | 12 | M20x150 | M20x180 | 12 | M24x150 | M24x180 | 12 | M22x160 | M22x190 | 12 |
| 300 | M20x150 | M20x180 | 12 | M20x160 | M20x190 | 12 | M24x160 | M24x190 | 12 | M22x170 | M22x210 | 12 |
| 350 | M20x150 | M20x180 | 12 | M20x160 | M20x190 | 16 | M24x170 | M24x200 | 16 | M24x180 | M24x220 | 12 |
| 400 | M20x180 | M20x210 | 16 | M24x190 | M24x220 | 16 | M27x210 | M27x240 | 16 | M27x210 | M27x250 | 16 |
| 450 | M20x190 | M20x220 | 16 | M24x200 | M24x230 | 20 | M27x220 | M27x250 | 20 | M27x230 | M27x270 | 16 |
| 500 | M20x210 | M20x240 | 20 | M24x210 | M24x240 | 20 | M30x240 | M30x280 | 20 | M27x250 | M27x290 | 20 |
| 600 | M24x240 | M24x270 | 20 | M27x250 | M27x290 | 20 | M33x270 | M33x320 | 20 | M33x290 | M33x340 | 20 |
| 700 | M24x250 | M24x280 | 24 | M27x260 | M27x310 | 24 | M33x280 | M33x330 | 24 | M33x350 | M33x400 | 28 |
| 800 | M27x280 | M27x320 | 24 | M30x290 | M30x350 | 24 | M36x320 | M36x360 | 24 | M39x400 | M33x460 | 28 |

| DN | Lug valves - Double Flange valves | | | | | | | |
|-----|-----------------------------------|----|---------|----|---------|----|----------|----|
| | PN 6 | | PN 10 | | PN 16 | | ANSI 150 | |
| | Bolts | N° | Bolts | N° | Bolts | N° | Bolts | N° |
| 40 | M12x30 | 8 | M16x30 | 8 | M16x30 | 8 | M14x30 | 8 |
| 50 | M12x35 | 8 | M16x35 | 8 | M16x35 | 8 | M16x35 | 8 |
| 65 | M12x35 | 8 | M16x40 | 16 | M16x40 | 16 | M16x40 | 8 |
| 80 | M16x40 | 8 | M16x40 | 16 | M16x40 | 16 | M16x40 | 8 |
| 100 | M16x40 | 8 | M16x40 | 16 | M16x40 | 16 | M16x45 | 16 |
| 125 | M16x45 | 16 | M16x45 | 16 | M16x45 | 16 | M20x50 | 16 |
| 150 | M16x45 | 16 | M20x45 | 16 | M20x45 | 16 | M20x50 | 16 |
| 200 | M16x50 | 16 | M20x50 | 16 | M20x50 | 24 | M20x55 | 16 |
| 250 | M16x55 | 24 | M20x55 | 24 | M24x55 | 24 | M22x60 | 24 |
| 300 | M20x60 | 24 | M20x60 | 24 | M24x60 | 24 | M22x60 | 24 |
| 350 | M20x60 | 24 | M20x60 | 32 | M24x65 | 32 | M24x65 | 24 |
| 400 | M20x70 | 32 | M24x70 | 32 | M27x70 | 32 | M27x80 | 32 |
| 450 | M20x80 | 32 | M24x80 | 40 | M27x80 | 40 | M27x80 | 32 |
| 500 | M20x80 | 40 | M24x80 | 40 | M30x80 | 40 | M27x90 | 40 |
| 600 | M24x90 | 40 | M27x90 | 40 | M33x100 | 40 | M33x100 | 40 |
| 700 | M24x100 | 48 | M27x100 | 48 | M33x110 | 48 | M33x130 | 56 |
| 800 | M27x110 | 48 | M30x120 | 48 | M36x130 | 48 | M39x150 | 56 |

NOTE 1: Screw and rod dimensions have been calculated with WELDING NECK flanges PN 6/10/16 (EN1092-1 Tipo 11)

ANSI150 (ANSI B16.5)
NOTE 2: Number of nuts should be double when WAFER valves are assembled with threaded rods.



| DN | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 |
|-------|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| G | 36 | 35 | 50 | 67 | 87 | 113 | 140 | 191 | 241 | 289 | 332 | 376 | 430 | 475 | 575 | 670 | 757 |
| Ø min | 46 | 44 | 60 | 75 | 98 | 122 | 148 | 196 | 244 | 296 | 342 | 378 | 440 | 485 | 585 | 681 | 782 |
| Ø max | 49 | 62 | 80 | 93 | 118 | 146 | 175 | 225 | 275 | 330 | 372 | 422 | 450 | 500 | 600 | 717 | 815 |

Compatibility flanges - body Wafer

| DN | EN 1092-1 / EN 1092-2 | | | | | ASME/ANSI | | | BS 10 | | JIS B2220 | | |
|-----|-----------------------|-------|-------|-------|-------|-----------|-----------|-----------|-------|-------|-----------|-----|-------|
| | PN 6 | PN 10 | PN 16 | PN 25 | PN 40 | class 125 | class 150 | class 300 | tab D | tab E | 5K | 10K | 16K |
| 40 | ☐ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ● | ✓ | ✓ | ✓ | ✓ | ✓ |
| 50 | ☐ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ● | ● | ● | ● | ☐ | ✗ |
| 65 | ☐ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ● | ● | ● | ✓ | ☐ | ☐ |
| 80 | ☐ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ● | ● | ● | ● | ● | ✓ |
| 100 | ☐ | ✓ | ✓ | ● | ● | ✓ | ✓ | ✗ | ● | ✓ | ✗ | ● | ✓ |
| 125 | ☐ | ✓ | ✓ | ● (1) | ● (1) | ✓ | ✓ | ✗ | ✓ | ✓ | ☐ | ✓ | ● (1) |
| 150 | ☐ | ✓ | ✓ | ● (1) | ● (1) | ✓ | ✓ | ✗ | ● | ● | ☐ | ✓ | ✗ |
| 200 | ☐ | ✓ | ✓ | ✓ (2) | ✗ | ✓ | ✓ | ✗ | ✓ | ✓ | ● | ● | ✓ (2) |
| 250 | ☐ | ✓ | ✓ | ● | ✗ | ✓ | ✓ | ✗ | ✗ | ✓ | ● | ✓ | ✗ |
| 300 | ☐ | ✓ | ✓ | ✓ (2) | ✗ | ✓ | ✓ | ✗ | ✓ | ✓ | ● | ● | ✓ (2) |
| 350 | ☐ | ✓ | ✓ | ● | ✗ | ✓ | ✓ | ✗ | ✓ | ✓ | ● | ● | ● |
| 400 | ☐ | ✓ | ✓ | ● | ✗ | ✓ | ✓ | ✗ | ✗ | ✗ | ● | ● | ✓ |
| 450 | ☐ | ✓ | ✓ | ● | ✗ | ✓ | ✓ | ✗ | ✗ | ✗ | ● | ✓ | ✗ |
| 500 | ☐ | ✓ | ✓ | ● | ✗ | ✓ | ✓ | ✗ | ✗ | ✗ | ● | ✓ | ✓ |
| 600 | ☐ | ✓ | ✓ | ● | ✗ | ✓ | ✓ | ✗ | ✗ | ✗ | ● | ✗ | ✗ |
| 700 | ☐ | ✓ | ✓ | ✗ | ✗ | | ✓ | ✗ | | | ● | ✓ | ✗ |
| 800 | ☐ | ✓ | ✓ | ✗ | ✗ | | ✓ | ✗ | | | ● | ✓ | ✗ |

✓ standard
 ☐ only body PN 6 version
 ● on request
 ✗ not possible

(1) only with ductile iron bodies
 (2) standard with ductile iron and steel bodies, on request with different materials

Compatibility flanges - body Lug

| DN | EN 1092-1 / EN 1092-2 | | | | | ASME/ANSI | | | BS 10 | | JIS B2220 | | |
|-----|-----------------------|-------|-------|-------|-------|-----------|-----------|-----------|-------|-------|-----------|-------|-------|
| | PN 6 | PN 10 | PN 16 | PN 25 | PN 40 | class 125 | class 150 | class 300 | tab D | tab E | 5K | 10K | 16K |
| 40 | ☐ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ● | ☐ | ☐ | ● | ● | ● |
| 50 | ☐ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ● | ● | ● | ● | ● | ✗ |
| 65 | ☐ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ● | ● | ● | ● | ● | ● |
| 80 | ☐ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ● | ● | ● | ● | ● | ✓ |
| 100 | ☐ | ✓ | ✓ | ● | ● | ✓ | ✓ | ✗ | ● | ✓ | ✗ | ● | ● |
| 125 | ☐ | ✓ | ✓ | ● (1) | ● (1) | ✓ | ✓ | ✗ | ✓ | ✓ | ✓ | ✓ | ● (1) |
| 150 | ☐ | ✓ | ✓ | ● (1) | ● (1) | ✓ | ✓ | ✗ | ● | ● | ● | ✓ | ✗ |
| 200 | ☐ | ✓ | ✓ | ● | ✗ | ✓ | ✓ | ✗ | ● | ● | ● | ● | ✗ |
| 250 | ☐ | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ | ✗ | ✗ | ● | ● | ✓ | ✗ |
| 300 | ☐ | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ | ✗ | ● | ● | ● | ✓ (1) | ✗ |
| 350 | ☐ | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ | ✗ | ● | ● | ● | ● | ✗ |
| 400 | ☐ | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ | ✗ | ● | ● | ● | ● | ● |
| 450 | ☐ | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ | ✗ | ✗ | ● | ● | ✓ | ✗ |
| 500 | ☐ | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ | ✗ | ✗ | ✗ | ● | ✓ | ✗ |
| 600 | ☐ | ✓ | ✓ | ● | ✗ | ✓ | ✓ | ✗ | ✗ | ✗ | ● | ✗ | ✗ |
| 700 | ☐ | ✓ | ✓ | ✗ | ✗ | | ✓ | ✗ | | | ● | ✓ | ✗ |
| 800 | ☐ | ✓ | ✓ | ✗ | ✗ | | ✓ | ✗ | | | ● | ✓ | ✗ |

✓ standard
 ☐ only body PN 6 version
 ● on request
 ✗ not possible

(1) only with ductile iron bodies
 (2) standard with ductile iron and steel bodies, on request with different materials

Test

GIBSON valves are built according to following international standards:

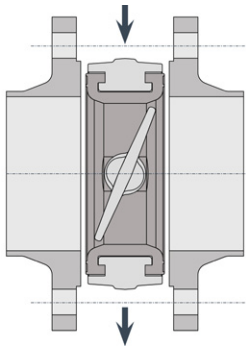
| | | | | | |
|--------------------------|-------------------------------|----------|-----------|----------------|-----------|
| Body test pressure: | DIN 3230BA - API598 | DIN 3230 | body test | hydraulic test | pneu test |
| Hydraulic test pressure: | DIN 3230BN1 - API598 | PN6 | 9 bar | 7 bar | 6 bar |
| Pneumatic test pressure: | DIN 3230BO1 - API598 | PN10 | 15 bar | 11 bar | 6 bar |
| Test certificates: | UNI EN 10204 2.2 (standard) | PN16 | 24 bar | 17,6 bar | 6 bar |
| | UNI EN 10204 3.1 (on request) | PN25 | 38 bar | 27,5 bar | 6 bar |
| | UNI EN 10204 3.2 (on request) | | | | |

Test duration is indicated by API598 standard

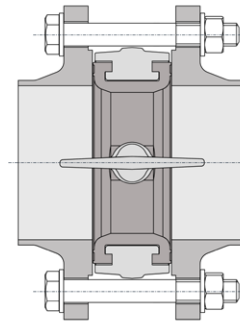
| | | | | | |
|--------------------------|--------------------------|--------------------------|---------|-----------|----------------|
| Body test pressure: | Hydraulic test pressure: | Pneumatic test pressure: | API598 | body test | hydraulic test |
| < DN 65 = 15 sec. | < DN 65 = 15 sec. | < DN 65 = 15 sec. | ANSI125 | 21 bar | 18 bar |
| DN 65 / DN 200 = 80 sec. | DN 65 / DN 200 = 30 sec. | DN 65 / DN 200 = 30 sec. | ANSI150 | 30 bar | 22 bar |
| > DN 200 = 180 sec. | > DN 200 = 60 sec | > DN 200 = 60 sec | ANSI300 | 78 bar | 58 bar |

Installation

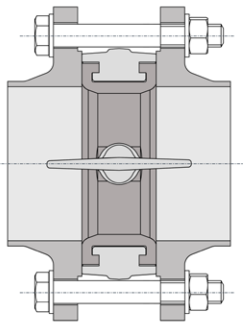
Assembly



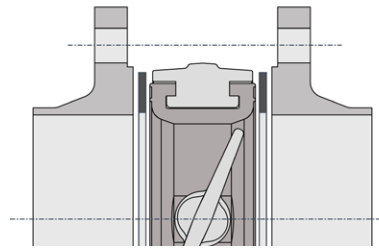
1 - Leave a space between flanges so that valve can be easily inserted and removed.



2 - Open completely the valve before tightening flanges.



3 - Tighten bolts till flanges are in contact with valve body.

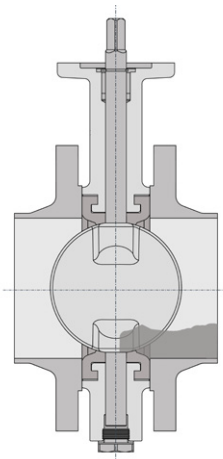


4 - NOTE: do not insert other packing between flange and valve.

NOTE: Weld the pipe only in spots with the valve between flanges. Remove the valve before finishing welding to avoid that heat damage the seat. Clean carefully the welding to avoid that slags damage the seat.

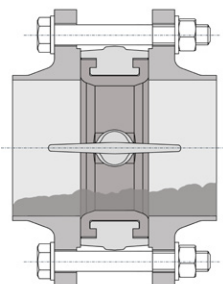
Installation for powders and muddy fluids

In case of use with powders or muddy fluids, install the valve with horizontal rotation axis, to allow sediments to flow easily on opening.



Wrong
Vertical rotation axis

←
powders or muddy fluids



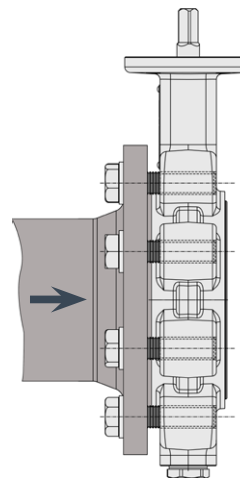
Right
Horizontal rotation axis

←
powders or muddy fluids

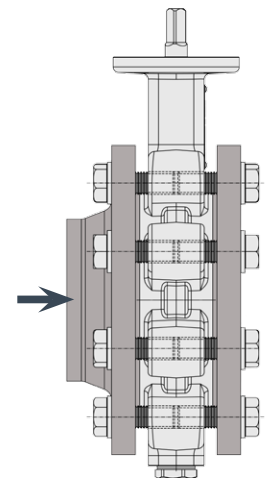
This type of installation is always advisable with valve diameters over DN 400.

End piping installation

When valves are installed end of piping, a counterflange as per dwg type B is needed to secure tightness at max pressure.



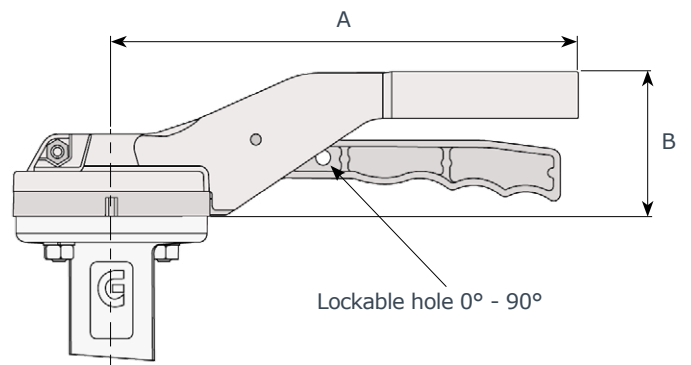
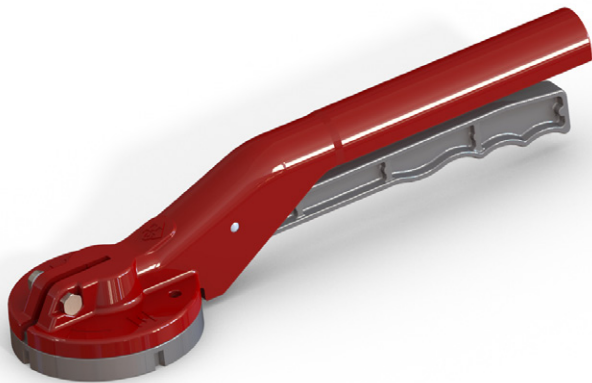
Type A installation without end piping



Type B installation with end piping

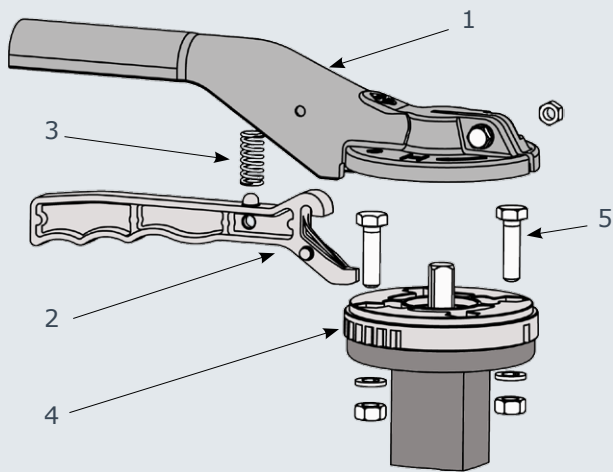
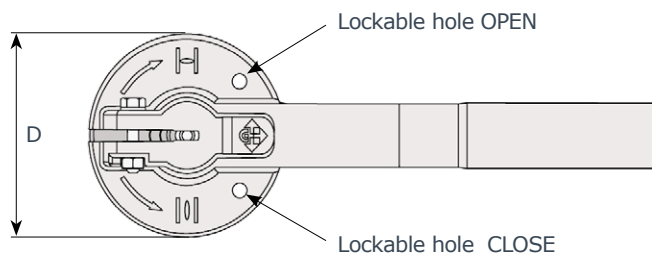
| valve type | P _{max} (Bar) | |
|------------|------------------------|---------------------|
| | type A installation | type B installation |
| BLPD | 4 | 6 |
| BLKI | 6 | 16 |
| BLKA | 16 | 20 |
| BLKX | 16 | 25 |

Handlevers



| DN | A | B | D | Kg |
|-----------|-----|----|-----|------|
| 40 - 100 | 220 | 67 | 93 | 0.6 |
| 125 - 150 | 275 | 67 | 93 | 0.65 |
| 200 - 300 | 340 | 76 | 125 | 1 |

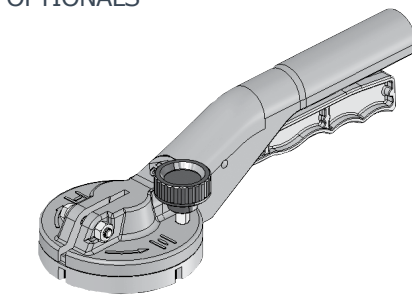
Note:
DN 250 - 300 handlever not recommended
(PD series excluded)



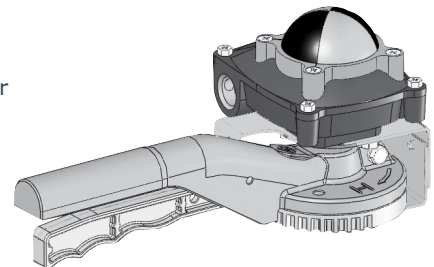
| | | |
|---|------------------|-----------------|
| 1 | lever | aluminium |
| 2 | trigger | aluminium |
| 3 | spring | stainless steel |
| 4 | disc positioning | aluminium |
| 5 | screws | steel |

* others material on request

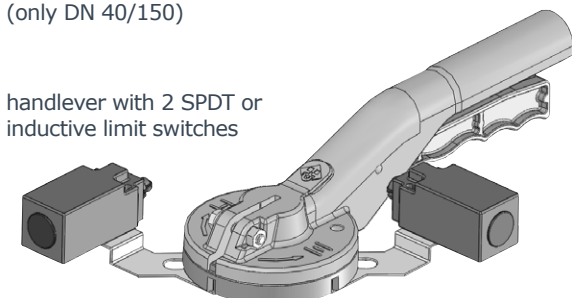
OPTIONALS



Adjustable handlever

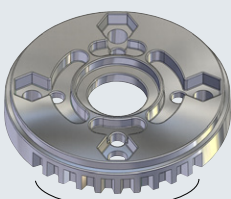


handlever with switch box
(only DN 40/150)

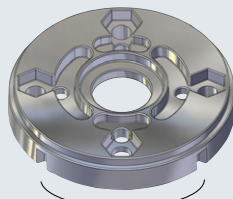


handlever with 2 SPDT or
inductive limit switches

positioning disc DN 40 - 150 designed for flanges ISO 5211 F05/F07



10 positions



Open - Closed

positioning disc with two types of regulation: 10 positions or Open/Close

Gearboxes

Aluminium body - HW Series

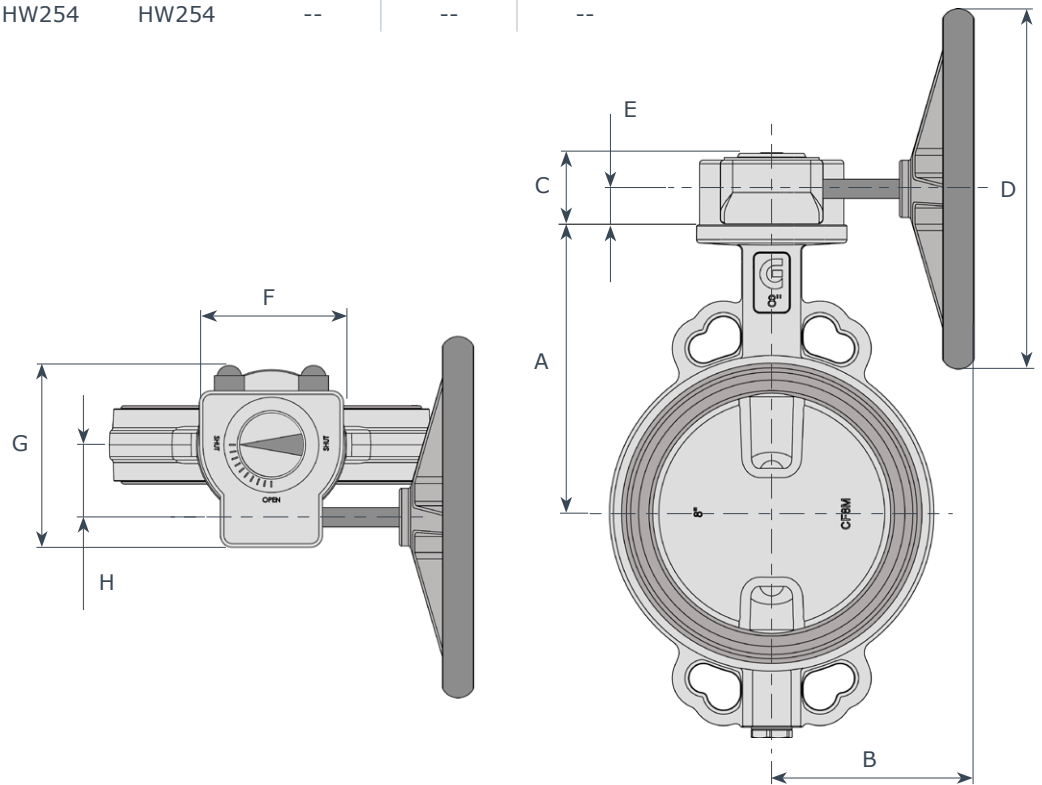
Coupling valve - actuators

| DN | " | PD | KI | | | KA | KX |
|-----|------------------|-------|-----------|------------|------------|-------|-------|
| | | | p = 6 bar | p = 10 bar | p = 16 bar | | |
| 40 | 1 ^{1/2} | -- | HW070 | HW070 | HW070 | -- | -- |
| 50 | 2 | HW070 | HW070 | HW070 | HW070 | HW070 | HW070 |
| 65 | 2 ^{1/2} | HW070 | HW070 | HW070 | HW070 | HW070 | HW070 |
| 80 | 3 | HW070 | HW070 | HW070 | HW070 | HW070 | HW070 |
| 100 | 4 | HW070 | HW070 | HW070 | HW070 | HW070 | HW070 |
| 125 | 5 | HW070 | HW070 | HW070 | HW070 | HW070 | HW070 |
| 150 | 6 | HW070 | HW070 | HW070 | HW070 | HW070 | HW070 |
| 200 | 8 | HW102 | HW102 | HW102 | HW102 | HW102 | HW102 |
| 250 | 10 | HW102 | HW102 | HW102 | HW102 | HW102 | -- |
| 300 | 12 | HW102 | HW102 | HW102 | HW102 | HW102 | -- |
| 350 | 14 | HW140 | HW140 | HW140 | HW140 | HW140 | -- |
| 400 | 16 | HW140 | HW140 | HW140 | HW140 | HW165 | -- |
| 450 | 18 | HW165 | HW165 | HW165 | HW165 | HW165 | -- |
| 500 | 20 | HW165 | HW165 | HW165 | HW165 | HW254 | -- |
| 600 | 24 | -- | HW254 | HW254 | -- | -- | -- |
| 700 | 28 | -- | HW254 | HW254 | -- | -- | -- |
| 800 | 32 | -- | HW254 | HW254 | -- | -- | -- |

HW series

body: aluminium
 worm gears: steel
 sector gear: ductile iron
 shaft: stainless steel
 handwheel: steel
 protection: IP65
 T: -20 / +120 °C

| DN | " | A |
|-----|------------------|-----|
| 40 | 1 ^{1/2} | 130 |
| 50 | 2 | 138 |
| 65 | 2 ^{1/2} | 144 |
| 80 | 3 | 158 |
| 100 | 4 | 173 |
| 125 | 5 | 186 |
| 150 | 6 | 202 |
| 200 | 8 | 240 |
| 250 | 10 | 270 |
| 300 | 12 | 300 |
| 350 | 14 | 330 |
| 400 | 16 | 355 |
| 450 | 18 | 400 |
| 500 | 20 | 422 |
| 600 | 24 | 495 |
| 700 | 28 | 550 |
| 800 | 32 | 640 |



| Mod. | B | C | D | E | F | G | H | Kg |
|-------|-----|-----|-----|----|-----|-----|-----|-----|
| HW070 | 160 | 48 | 140 | 27 | 80 | 115 | 42 | 1.6 |
| HW102 | 215 | 56 | 250 | 33 | 120 | 150 | 60 | 3 |
| HW140 | 325 | 95 | 400 | 51 | 185 | 225 | 80 | 10 |
| HW165 | 395 | 105 | 600 | 61 | 230 | 268 | 105 | 20 |
| HW254 | 416 | 125 | 700 | 80 | 265 | 332 | 130 | 25 |

Gearboxes

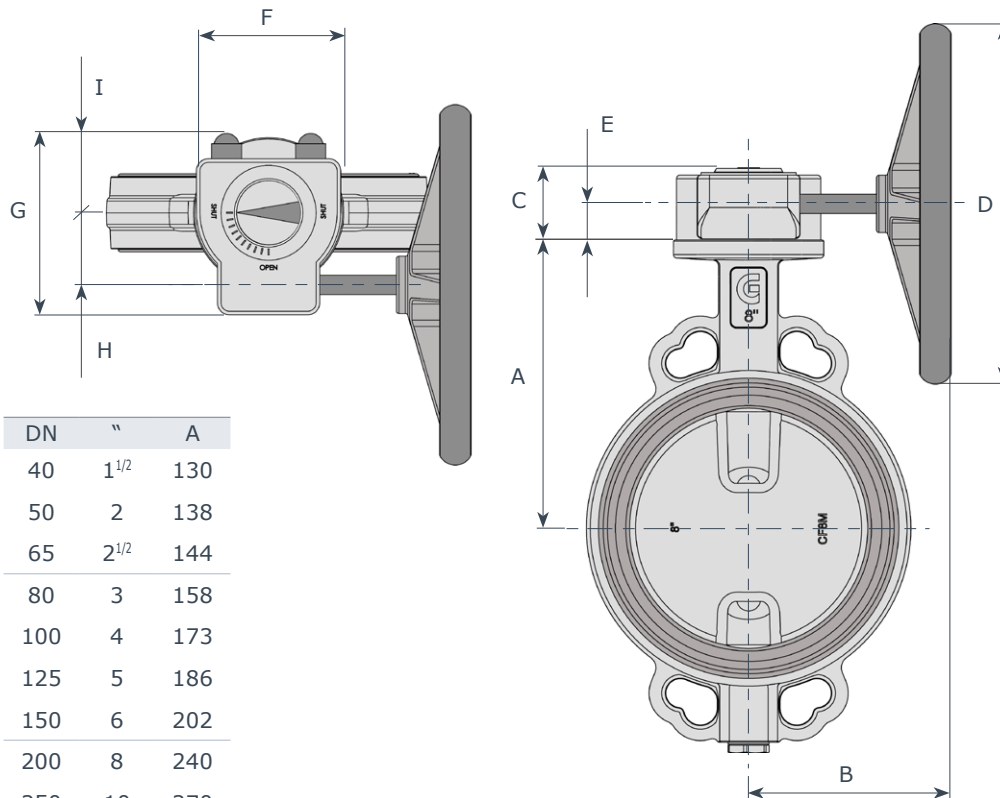
Cast Iron body - AB Series

Coupling valve - actuators

| DN | " | PD | KI | | | KA | KX |
|-----|------------------|-------|-----------|------------|------------|--------|-------|
| | | | p = 6 bar | p = 10 bar | p = 16 bar | | |
| 40 | 1 ^{1/2} | AB150 | AB150 | AB150 | AB150 | AB150 | AB150 |
| 50 | 2 | AB150 | AB150 | AB150 | AB150 | AB150 | AB150 |
| 65 | 2 ^{1/2} | AB150 | AB150 | AB150 | AB150 | AB150 | AB150 |
| 80 | 3 | AB150 | AB150 | AB150 | AB150 | AB150 | AB150 |
| 100 | 4 | AB150 | AB150 | AB150 | AB150 | AB150 | AB150 |
| 125 | 5 | AB150 | AB150 | AB150 | AB150 | AB150 | AB150 |
| 150 | 6 | AB150 | AB150 | AB150 | AB150 | AB150 | AB150 |
| 200 | 8 | AB215 | AB215 | AB215 | AB215 | AB215 | AB215 |
| 250 | 10 | AB550 | AB550 | AB550 | AB550 | AB550 | AB550 |
| 300 | 12 | AB550 | AB550 | AB550 | AB550 | AB550 | AB550 |
| 350 | 14 | AB880 | AB880 | AB880 | AB880 | AB880 | AB880 |
| 400 | 16 | AB880 | AB880 | AB880 | AB880 | AB880 | AB880 |
| 450 | 18 | AB880 | AB880 | AB880 | AB880 | AB1250 | -- |
| 500 | 20 | AB880 | AB880 | AB880 | AB880 | AB1250 | -- |
| 600 | 24 | -- | AB1250 | AB1250 | -- | AB1954 | -- |
| 700 | 28 | -- | AB1950 | AB1950 | -- | AB6804 | -- |
| 800 | 32 | -- | AB1950 | AB1954 | -- | AB6806 | -- |

AB series

body: cast iron GG25
 worm gears: steel
 sector gear: ductile iron
 shaft: steel
 handwheel: steel
 protection: IP67
 T: -20 / +120 °C
 low/high temperature execution on request



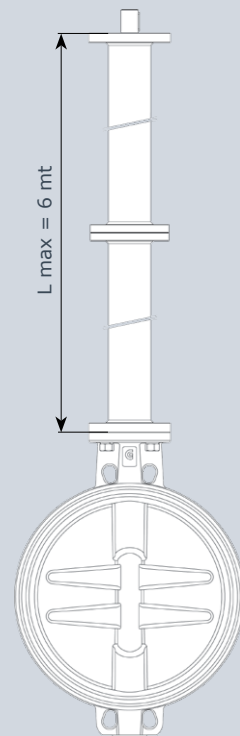
| DN | " | A |
|-----|------------------|-----|
| 40 | 1 ^{1/2} | 130 |
| 50 | 2 | 138 |
| 65 | 2 ^{1/2} | 144 |
| 80 | 3 | 158 |
| 100 | 4 | 173 |
| 125 | 5 | 186 |
| 150 | 6 | 202 |
| 200 | 8 | 240 |
| 250 | 10 | 270 |
| 300 | 12 | 300 |
| 350 | 14 | 330 |
| 400 | 16 | 355 |
| 450 | 18 | 400 |
| 500 | 20 | 422 |
| 600 | 24 | 495 |
| 700 | 28 | 550 |
| 800 | 32 | 640 |

| Mod. | B | C | D | E | F | G | H | I | Kg |
|--------|-----|-----|-----|----|-----|-----|-----|-----|-----|
| AB150 | 134 | 55 | 125 | 27 | 80 | 124 | 43 | 58 | 2.2 |
| AB215 | 197 | 63 | 200 | 29 | 102 | 128 | 52 | 48 | 3.5 |
| AB550 | 292 | 88 | 300 | 41 | 138 | 174 | 71 | 69 | 8.5 |
| AB880 | 319 | 93 | 400 | 42 | 200 | 226 | 86 | 100 | 14 |
| AB1250 | 380 | 102 | 500 | 48 | 220 | 258 | 105 | 110 | 22 |
| AB1950 | 425 | 126 | 600 | 52 | 285 | 323 | 130 | 143 | 32 |
| AB1954 | 485 | 126 | 600 | 52 | 285 | 323 | 211 | 143 | 45 |
| AB6804 | 538 | 159 | 600 | 59 | 370 | 407 | 263 | 170 | 70 |
| AB6806 | 579 | 159 | 600 | 59 | 370 | 407 | 278 | 170 | 81 |

Waterproof valve shaft extension

When necessary, it's possible to extend the valve shaft as indicated in the figure. Construction is in carbon steel with protective paint (on request stainless steel). Max length to be supplied is 6 meters from the flange plane to the valve.

"L" measure should be indicated when ordering.



Our technical department is available to solve special applications.