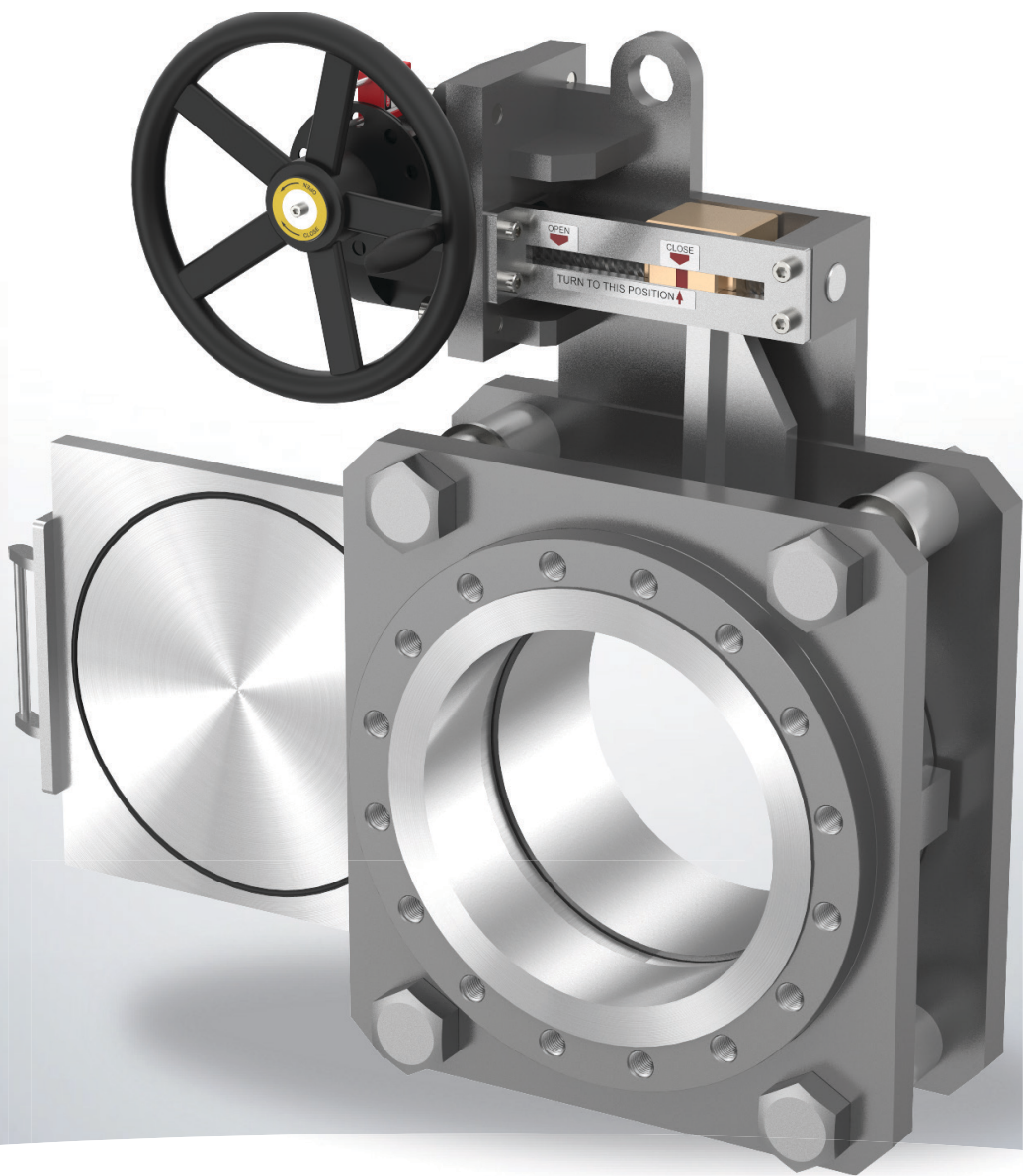


COMPACT TYPE

Instruction Catalogue



GENERAL INFORMATION

INSTRUCTION & FEATURES

The Compact type is designed for replacement of existing valves, limited F-F dimension or large diameter pipeline applications or limited space for installation.

It is designed with a short face to face, and has tapped bolt holes for easy installation between flanges.

The compact design also reduces weight and requirement for extra pipe support.

TECHNICAL SPECIFICATIONS

NOMINAL DIAMETER

NPS 1/2 (DN15) - NPS100 (DN2500)

PRESSURE RATING

ASME Class 150 to Class 1500

Other pressure classes up to ASME 2500

Available upon request

FUNCTION

Gas & Liquid Perfect Isolation(Zero Leakage)

TEMPERATURE RANGE

Standard Design : -20°C ~ +200°C

High Temp. Design : +200°C ~ +816°C

Cryogenic Design : -196°C

MATERIALS

BODY : Carbon Steel, Stainless Steel, Special Material (Duplex, Hastelloy, Monel, Inconel etc.)

BLIND : Stainless Steel, Special Material (Duplex, Hastelloy, Monel, Inconel etc.)

MOVING PARTS & SEALING SURFACE are Anti-corrosion Materials

OPERATION METHOD

Manual Operation

Electric, Pneumatic or Hydraulic Operation

APPLICATIONS

• REFINERY

- > Ethylene Furnace
- > Decoking line
- > Steam & Vapor line
- > FCCU Fractionator isolation
(overhead & bottom line)
- > Catalyst service
- > Flare gas line

• CHEMICAL PLANT

- > Reactor Blowdown
- > Ethylene Furnace
- > Chemical Cleaning isolation
- > Mixing lines
- > Regeneration gas line
- > Filtration system
- > Loading station
- > Transfer line

• OIL TERMINAL

- > Oil & Chemical tankfarm
- > Loading Station
- > Pump isolation
- > LNG tank
- > Airport fuel line

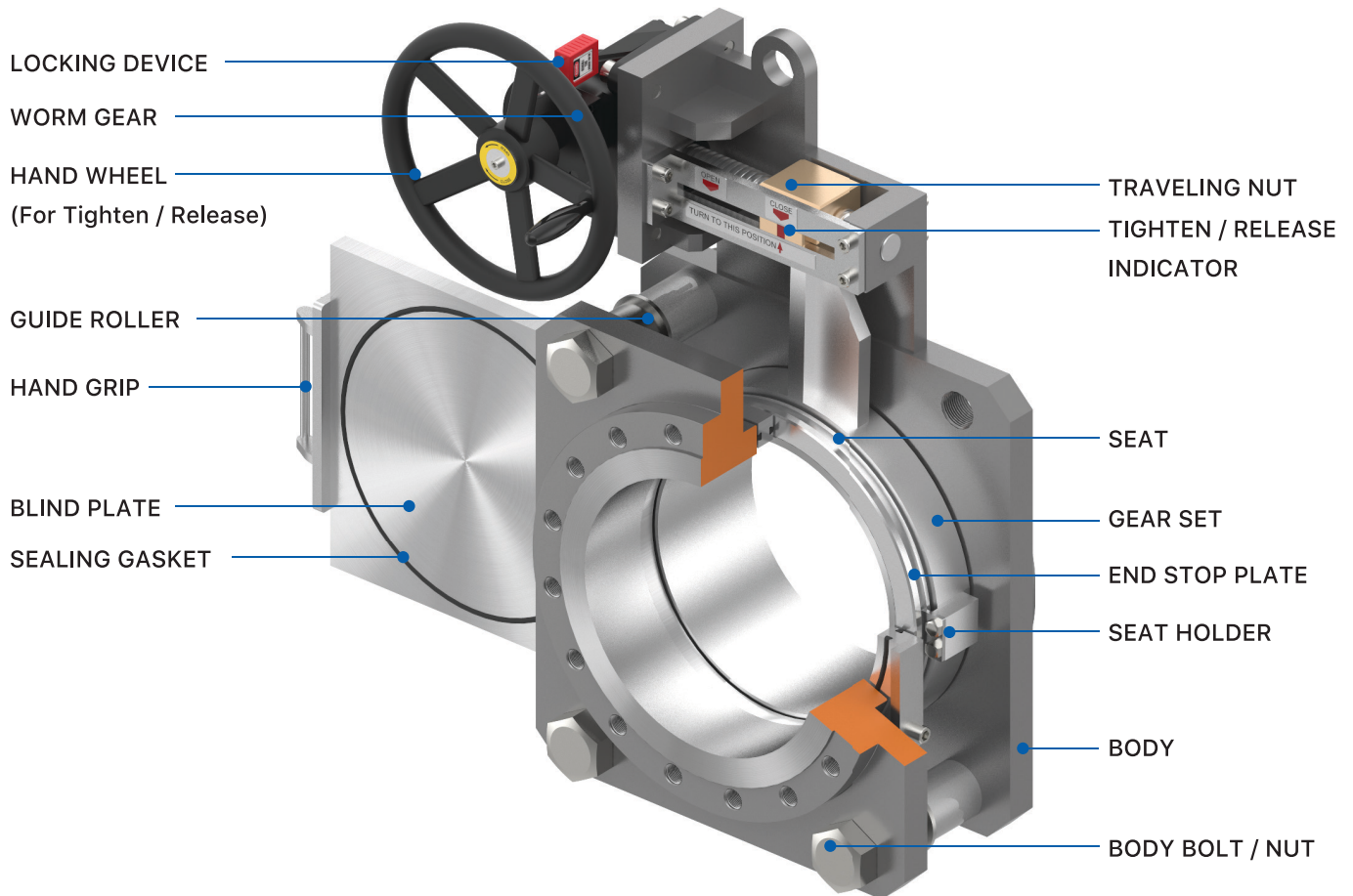
• OFFSHORE

- > FPSO
- > LNG ship
- > Shipboard lines
- > Vessel inlet
- > Inert Gas system

• STEEL

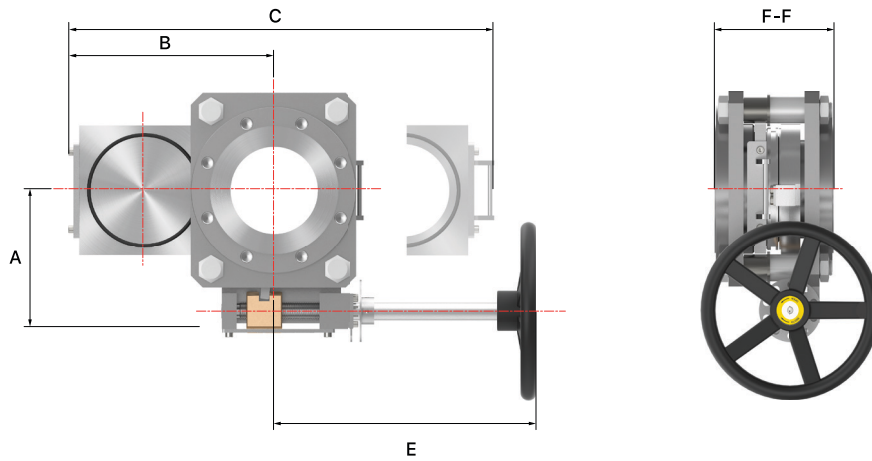
- > Coke Oven Gas
- > Blast Furnace Gas

Part & Description



Part name	CS Body & SS Slide	SS Body & Slide	Optional Material
BODY	Carbon Steel	Stainless Steel	Martensitic or Ferritic Stainless steel Duplex or Super Duplex Low alloy steel
		Stainless Steel	
		Stainless Steel	
BLIND PLATE	Stainless Steel	Stainless Steel	Nickel & Nickel base alloy
SEAT	Stainless Steel	Stainless Steel	Nickel-Chromium-Iron alloy
GEAR SET	Stainless Steel	Stainless Steel	Chromium-Molybdenum alloy
SCREW SHAFT	Stainless Steel	Stainless Steel	
HEX.BOLT	SA193-B7	SA193-B8	for H2S Service /
HEX.NUT	SA194-2H	SA194-8	for Low Temp.
BLIND SEAL RING	Selection	Selection	Selection
SEAT SEAL RING	Selection	Selection	Selection
WIPER	PTFE / GRAPHITE	PTFE / GRAPHITE	PTFE / GRAPHITE
LOCKING DEVICE	P	P	-

Dimensions

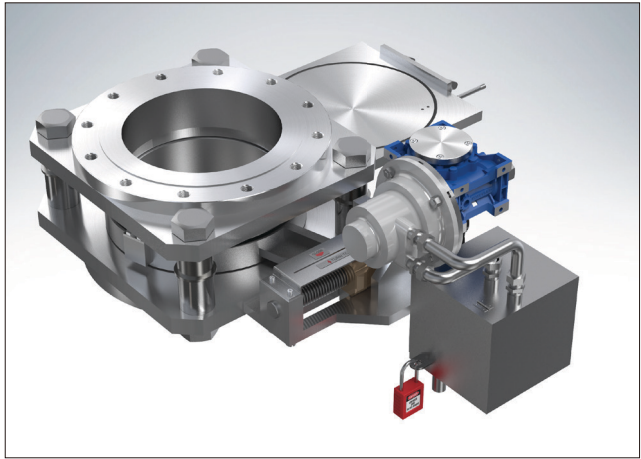


Class 150

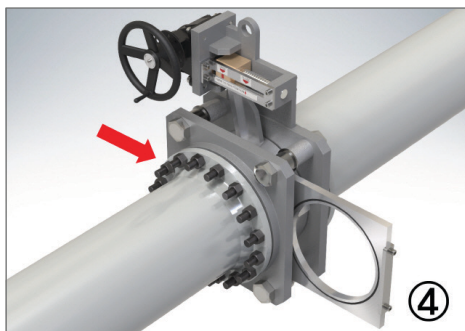
Size		F-F	A	B	C	E	kg
inch	DN						Weight(NET)
1	25	120	100.8	125	250	180	8
2	50	140	153.5	177.5	393	266	24
3	80	160	169.5	221.5	443	327.4	35
4	100	160	202	262.5	563	365	47
6	150	200	233	346	717	445	85
8	200	220	282	416.5	858	503	122
10	250	240	387	540	1038	352	195
12	300	260	412	639.5	1279	384	310
14	350	300	454	462	1322	400	382
16	400	340	518	762	1524	436	580
18	450	360	575	855	1710	526	620
20	500	400	630	949	1918	540	980
24	600	420	715	1105	2220	562	1500

Class 300

Size		F-F	A	B	C	E	kg
inch	DN						Weight(NET)
1	25	130	110	125	250	180	10
2	50	150	145.5	177.5	393	266	26
3	80	170	206	247.9	520.8	337.2	40
4	100	180	245.5	262.5	563	380	60
6	150	230	307	360	721	331	130
8	200	250	337	441.5	875	339	250
10	250	280	381	536.8	1095.5	342.9	290
12	300	290	424	627.5	1230	370	400
14	350	350	498	652	1367	415	545
16	400	430	605	795.8	1591.5	531.3	815
18	450	380	644	952.5	1775	571	1012
20	500	400	645	940	1880	533.8	1440
24	600	440	790	1335	2315	637	1986



Operating Instruction



- 1). Before turning the handwheel to change the blind plate position, internal pressure of the valve must be drained and be sure no pressure(Zero).
- 2). Unlock locking device for turn to handwheel
- 3). To change the blind plate position, turn the handwheel clockwise until indicator reaches to "Open" mark.
- 4). When indicator is on "open" mark, change the blind plate position to open or close.
- 5). After change the blind plate position, turn the handwheel counter-clockwise until indicator reaches to "Close" mark to tighten the seat.
- 6). Lock locking device for can't use ahourized person



Type A



Type B

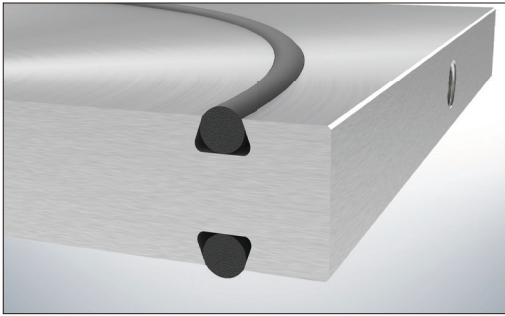


Type C



Type D

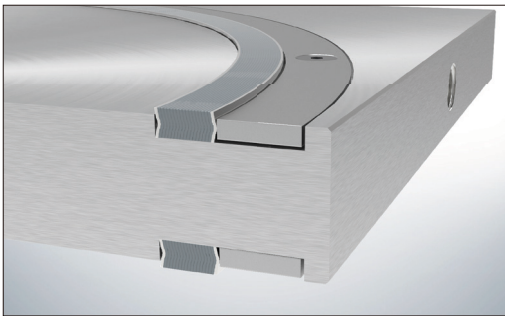
Sealing Material Guide



ELASTOMER O-RING

FKM
FFKM
FVMQ
Viton®
EPDM
NBR

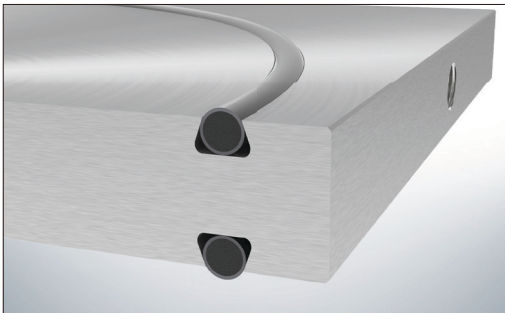
International Standard
Long durability
Excellent gas tightness
Easy to purchase
Selection depend on chemical resistance



SPIRAL WOUND GASKET

Graphite mold
Spiral wound

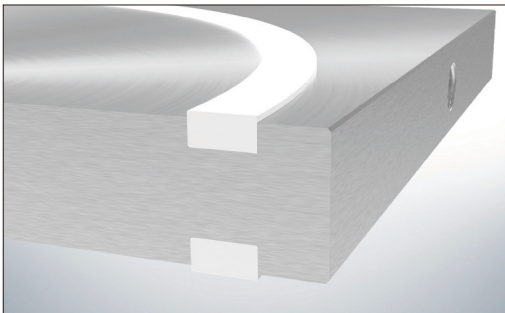
High temperature service
Cryogenic service
Excellent chemical resistance
Easy to purchase



TEFLON ENCAPSULATED O-RING

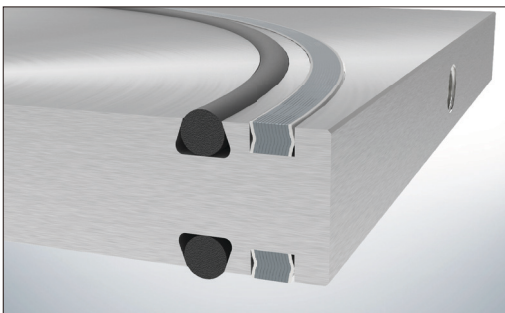
PFAV / FEPV / PFAS

International Standard
Excellent chemical resistance with teflon tube
Retaining elasticity with core o-ring
Excellent gas tightness
Long durability
Easy to purchase



PTFE GASKET

Excellent chemical resistance
Excellent tightness
Long durability
Easy to purchase



FIRE SAFE GASKET

Spiral wound
O-ring

Primary sealing with elastic o-ring
Secondary sealing with spiral wound gasket
Excellent gas tightness
Long durability
Easy to purchase

