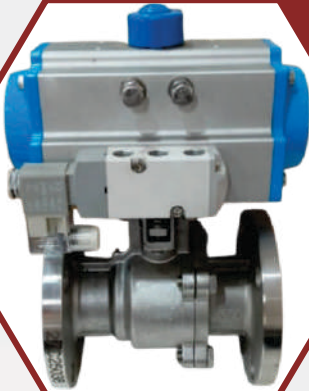




STARTFLO CONTROLS
The Masters in Flow Technology



PRODUCT CATALOGUE



STARTFLO CONTROLS

The Masters in Flow Technology

STARTFLO CONTROLS cares for Customers, Energy and Environment.

OUR MISSION :

To provide complete satisfaction to the customer through expert technical guidance, reliable product of highest quality backed by strong after sales service thus earning customers trust and confidence and become partner in their business.

STARTFLO CONTROLS is manufacturer of Ball Valves, Gate Valves, Globe Valves, Check Valves, & Butterfly valves, application for oil & gas, petrochemicals, water treatment, chemicals, pharma, sugar industries & paper industries etc.

STARTFLO CONTROLS has a team of qualified and well trained persons to take care of marketing and service. Startflo controls is known in the industries as a company who provides right solutions with prompt service. Startflo Controls helps the customers in proper selection of products for their requirement.

OUR VISION:

To become “Customer Preferred Company” worldwide that manufactures and delivers the valves with global support and zero errors within the smallest lead time.

OUR STRENGTHS:

Highly reliable products.

Qualified team to provide technical guidance and offers within record time

Well trained team for quick and satisfactory service

Customers trust earned through years of hard work

INDUSTRIES WE CAN SERVE

Chemical/Petrochemical/Fertilizer

Plant Power Plants

Food Industry

Oil and Gas

Pharmaceuticals

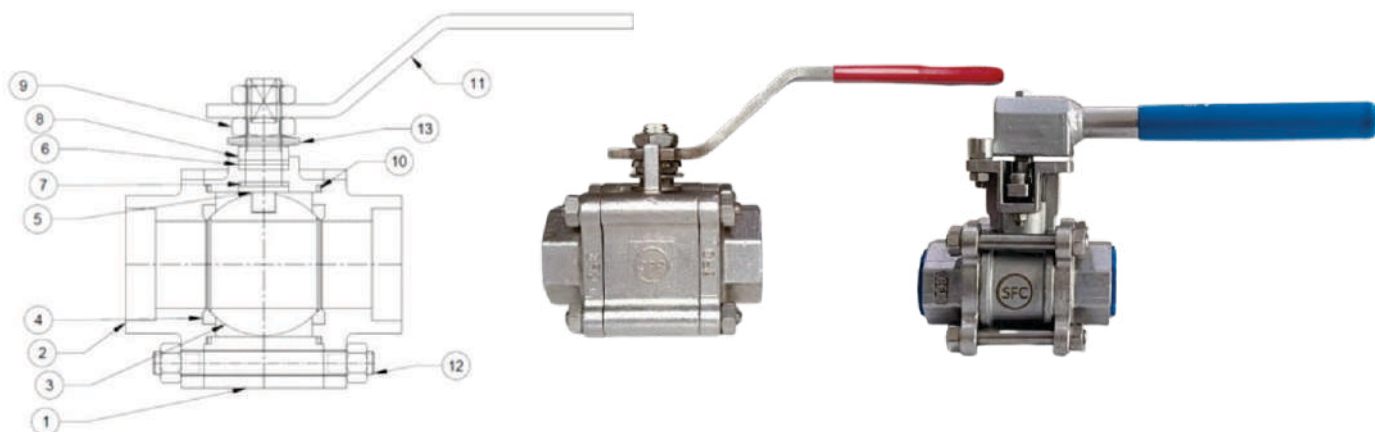
Water Treatment and supply, cooling Tower

Flow control

MISSION VISION STRENGTHS



3PC - FLOATING BALL VALVE



TECHNICAL STANDARDS

DESIGN STANDARDS :- BS EN ISO 17292

SCREWED END :- BSP (BS21) / NPT (ASME B1.20.1)

SOCKET WELD END :- ASME B16.11

FACE TO FACE :- MANUFACTURERS

TESTING STANDARDS :- API 598 / EN12266-1

SIZE :- DN 15 TO DN 100, CLASS #150 TO #800

DESIGN FEATURES

- **FIRE SAFE**
- **BLOW OUT PROOF STEM**
- **ANTI-STATIC DESIGN**

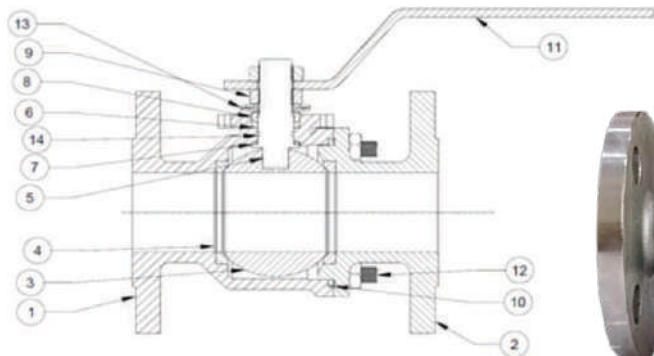
Sr. No	PART LIST	MATERIAL SPECIFICATION
1.	BODY	WCB/CF8/CF8M/CF3/CF3M/LCB/CA15/Gr.4A,5A
2.	BODY ADAPTER	WCB/CF8/CF8M/CF3/CF3M/LCB/CA15/Gr.4A,5A
3.	BALL	CF8/CF8M/CF3/CF3M/Gr.4A,5A SS304/SS316/SS304L/SS316L/SS410/F51,F53
4.	SEAT	PTFE/RPTFE/GFT/PEEK/CFT
5.	STEM	SS304/SS316/SS304L/SS316L/SS410/F51,F53/17-4PH
6.	STEM PACKING	GRAPHITE/PTFE/GFT
7.	STEM WASHER	GFT/PTFE
8.	GLAND	SS304/SS316
9.	GLAND/LOCK NUT	SS304/SS316
10.	BODY GASKET	GRAPHITE/PTFE/GFT
11.	LEVER+SLEEVE	CS+PLATE+PVC / SS+PVC
12.	STUD & NUT	ASTM A193 B7,B7M,B8,B8M / ASTM A320 L7,L7M ASTM A194 2H,2HM,GR.8,8M / GR.7, 7M
13.	BELLEVILLE WASHER	SPRING STEEL / 50 Cr V4
14.	STEM ORING (OPTIONAL)	VITON-B

> Other special MOC can be provided as per customer requirements.

> Any special requirements provide as per customer requirements.



2PC - FLOATING BALL VALVE



TECHNICAL STANDARDS

DESIGN STANDARDS :- BS EN ISO 17292 / API 6D

FLANGE ENDS :- ASME B16.5

FACE TO FACE :- ASME B16.10 / API 6D

TESTING STANDARDS :- API 598 / EN12266-1

FIRE SAFE :- API 607

SIZE :- DN 15 TO DN 300, CLASS #150 TO #600, #900#1500

DESIGN FEATURES

- FIRE SAFE
- BLOW OUT PROOF STEM
- ANTI-STATIC DESIGN

Sr. No	PART LIST	MATERIAL SPECIFICATION
1.	BODY	WCB/CF8/CF8M/CF3/CF3M/LCB/CA15/Gr.4A,5A
2.	BODY ADAPTER	WCB/CF8/CF8M/CF3/CF3M/LCB/CA15/Gr.4A,5A
3.	BALL	CF8/CF8M/CF3/CF3M/Gr.4A,5A SS304/SS316/SS304L/SS316L/SS410/F51,F53
4.	SEAT	PTFE/RPTFE/GFT/PEEK/CFT
5.	STEM	SS304/SS316/SS304L/SS316L/SS410/F51,F53/17-4PH
6.	STEM PACKING	GRAPHITE/PTFE/GFT
7.	STEM WASHER	GFT/PTFE
8.	GLAND	SS304/SS316
9.	GLAND/LOCK NUT	SS304/SS316
10.	BODY GASKET	GRAPHITE/PTFE/GFT/SPW+SS304/316
11.	LEVER+SLEEVE	CS+PLATE+PVC / SS+PVC
12.	STUD & NUT	ASTM A193 B7,B7M,B8,B8M / ASTM A320 L7,L7M ASTM A194 2H,2HM,GR.8,8M / GR.7, 7M
13.	BELLEVILLE WASHER	SPRING STEEL / 50 Cr V4
14.	STEM ORING (OPTIONAL)	VITON-B
15.	ADAPTER ORING (OPTIONAL)	VITON-B

- > Valve up to 4" (#300) provided lever operated, Above (#600) & 6" provided Gear/Pneumatic,Actuator
- > Other special MOC can be provided as per customer requirements.
- > Any special requirements provide as per customer requirements.



BUTTERFLY VALVE



TECHNICAL SPECIFICATION:

SIZE : DN 40 TO DN 1200

CLASS: PN 10,PN 16,#150

DESIGN &MFG. STANDARD: API 609/BS EN 593/IS13095/ASME B16.5

TESTING STANDARD: API598/ BS EN 12266-1

FACE TO FACE : API 609, IS13095,EN 593, ISO 5752

TOP FLANGE: ISO 5211

FLANGE STANDARD: DIN EN 1092 PN6-10,CLASS 150,BS 10 TAB D& E,IS6392,

MATERIAL SPECIFICATION-

Sr.No	PART LIST	MATERIAL
1.	BODY	C.I, WCB,C.S,CF8,CF8M,CF3,CF3M
2.	DISC	SGI,DI, WCB, CF8,CF8M,CF3,CF3M
3.	SEAT	EPDM,NITRILE,PTFE
4.	STEM	SS410, SS304,SS316,SS304L
5.	STEM BUSH	PTFE,ACETAL
6.	REATAINING CIRCLIP	SPRING STEEL



TYPES OF BUTTERFLY VALVE

Concentric : The shaft is aligned with body center line

Single-Offset : The shaft is offset from its body center line.

Double-Offset : The shaft is offset from its body center line + shaft offset from pipe center line.

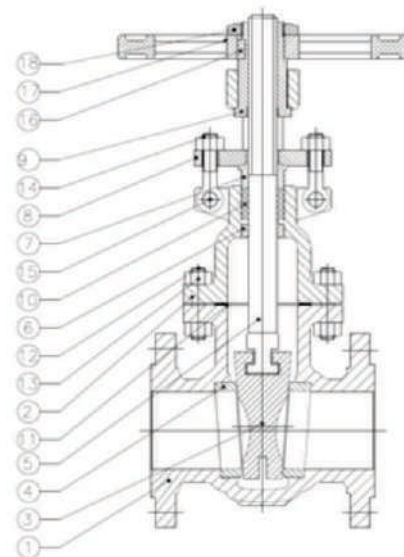
Tripple-Offset : The shaft is offset from its body center line + shaft offset from pipe center line
+ conical offset shape in its seal and discs connection

> Other special MOC can be provided as per customer requirements.

> Any special requirements provide as per customer requirements.



GATE VALVE



TECHNICAL SPECIFICATION -

CLASS - #150 TO #1500

SIZES - 1/2" TO 32" (DN-15 TO DN-800)

MFG STANDARDS - API 600 / BS 1414 / ASME B16.34 / MSS SP-144

FLANGE DETAILS - ASME B16.5, BS, EN, DIN, etc.

END TO END DIMENSIONS - ASME B16.10

TESTING STANDARDS - API 598 / BS EN 12266-PART 1

BUTT-WELD END DETAILS - ASME B16.25

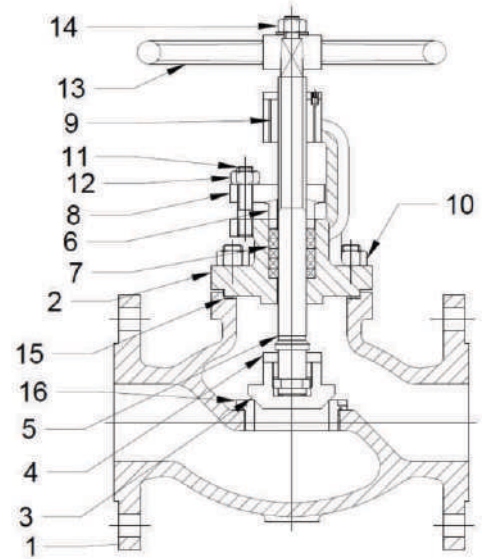
Sr. No	PART LIST	MATERIAL SPECIFICATION
1.	BODY	WCB, CF8, CF8M, CF3,CF3M,LCB,CA15,GR.4A
2.	BONET	WCB, CF8, CF8M, CF3,CF3M,LCB,CA15,GR.4A
3.	WEDGE	WCB+13%CR,CF8,CF8M, A276 TP 410
4.	SEAT RING	WCB+13%CR,CF8,CF8M, A276 TP 410
5.	STEM	A276 TP410, A276 TP304, A276 TP 316
6.	BACK SEAT BUSH	A276 TP 410, ASTM A351 CF8 , ASTM A351 CF8M
7.	GLAND BUSH	A276 TP 410, A276 TP 304, A276 TP 316
8.	GLAND FLANGE	WCB, CF8, CF8M, CF3,CF3M,LCB,CA15,GR.4A
9.	STEM NUT	CARBON STEEL,SS304
10.	STEM PACKING	GRAPHITE, PTFE, BRAIDED GRAPHITE RINGS REINFORCED WITH INCONEL WIRE
11.	BONET GASKET	SPW SS304 GRAFOIL FILLER, SPW SS316 GRAFOIL FILLER,CAF/SOFT IORN
12.	BONET STUDS	A193 GR.B7, A193 GR.B8, A193 GR.B8M.
13.	BONET NUTS	A1934 GR.2H, A194 GR.8 , A194 GR.8M
14.	GLAND EYE BOLTS & NUTS	CARBON STEEL,SS304
15.	GLAND LUG BOLTS & NUTS	CARBON STEEL,SS304
16.	KEY	CARBON STEEL,SS304
17.	HANDWHEEL	C.I, C.S, M.I
18.	HANDWHEEL NUT	CARBON STEEL,SS304

> Other special MOC can be provided as per customer requirements.

> Any special requirements provide as per customer requirements.



GLOBE VALVE



TECHNICAL SPECIFICATION -

CLASS-# 150 TO #1500

SIZES - 1/2" TO 32 " (DN-15 TO DN-800)

MFG STANDARDS - BS 1873 / ASME B16.34 / API 623

FLANGE DETAILS - ASME B16.5, BS, EN, DIN, etc.

END TO END DIMENSIONS - ASME B16.10

TESTING STANDARDS - API 598 / BS EN 12266-PART 1

BUTT-WELD END DETAILS - AS PER ASME B16.25

Sr. No	PART LIST	MATERIAL SPECIFICATION
1.	BODY	WCB, CF8, CF8M, CF3,CF3M,LCB,CA15,GR.4A
2.	BONET	WCB, CF8, CF8M, CF3,CF3M,LCB,CA15,GR.4A
3.	DISC	WCB+13%CR,CF8, CF8M, A276 TP 410
4.	DISC NUT	A276 TP410, A276 TP 304, A276 TP 316
5.	SPINDLE	A276 TP410, A276 TP 304, A276 TP 316
6.	GLAND	A276 TP410, A276 TP 304, A276 TP 316
7.	GLAND PACKING	BRAIDED GRAPHITE RINGS REINFORCED WITH INCONEL WIRE, PTFE ROPE GRAPHITE ASBESTOS
8.	GLAND FLANGE	ASTM A216 WCB, ASTM A351 CF8, ASTM A 351 CF8M.
9.	YOKE BUSH	SGI, ASTM A439 D2
10.	BONET STUD& NUT	A193 GR.B7,A194 GR. 2H,A194 GR.8, A193 GR.B8, A193 GR.B8M A194 GR.8M
11.	GLAND STUD	A193 GR.B7,, A193 GR.B8, A193 GR.B8M
12.	GLAND NUT	A1934 GR.2H, A194 GR.8, A194 GR.8M
13.	HAND WHEEL	C.I, C.S, M.I
14.	HANDWHEEL NUT	CARBON STEEL,SS304
15.	GASKET	SPW SS304 GRAFOIL FILLER, SPW SS316 GRAFOIL FILLER, CAF/SOFT IORN
16.	SEAT	WCB+13%CR,CF8, CF8M, A276 TP 410

> Other special MOC can be provided as per customer requirements.

> Any special requirements provide as per customer requirements.



WAFER CHECK VALVE-NRV



TECHNICAL SPECIFICATION

SIZE: DN 25 TO DN 1000

CLASS/RATING: PN10,PN16,#150

Design & Manufacturing Standards

API 609 / BS EN - 593 / IS13095 / ASME B16.51S0 7005

Testing Standard

API 598 / API6D / BSEN 12266-1

Flange Standard

DIN EN 1092-PN6, PN10, Class 150, Bs10 Tub DoE, 1S6392, Tab 11/17, JIS 5K/10K

face to face Dimension

Category A API 609 / IS13095 / ENS93 / ISOS752Tab5

Sr. No	PART LIST	MATERIAL SPECIFICATION
1.	BODY	CI, WCB, CF8, CF8M, Al Bronze, Duplex, Super Duplex
2.	DISC	DI, CF8, CF8M, Al Bronze, Duplex, Super Duplex.
3.	O RING/SEAT	EPDM, Buna-N, Viton, Hyplon. Butyle. Silicon, Neoprene, PTFE
4.	EYE BOLT	MS, SS

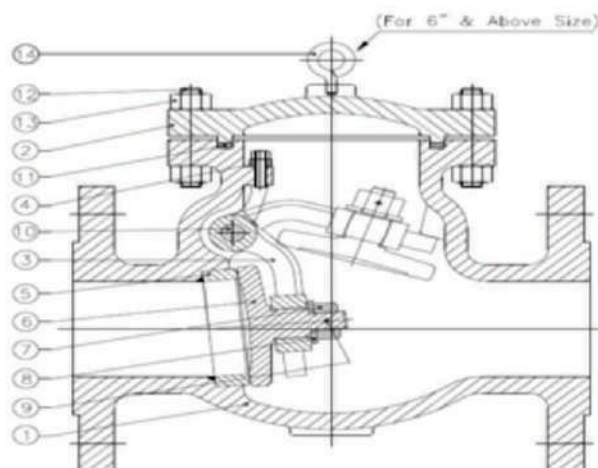
Note: Steel, Stainless Steel, Duplex, Super Duplex, Aluminium Bronze, also available in Body & Disc on 1" (Dn25) to 40" (Dn1000)

> Other special MOC can be provided as per customer requirements.

> Any special requirements provide as per customer requirements.



SWING CHECK VALVE-NRV



TECHNICAL SPECIFICATION -

CLASS :#150 TO #300

SIZES - 2" TO 12" (DN-50 TO DN-300)

MFG STANDARDS - API 594 / BS 1868 / API 6D / ASME B16.34

FLANGE DETAILS - ASME B16.5, BS, EN, DIN, etc.

END TO END DIMENSIONS - ASME B16.10, API 6D

TESTING STANDARDS - API 598 / BS EN 12266-PART 1 / API 6D

BUTT-WELD END DETAILS - ASME B16.25

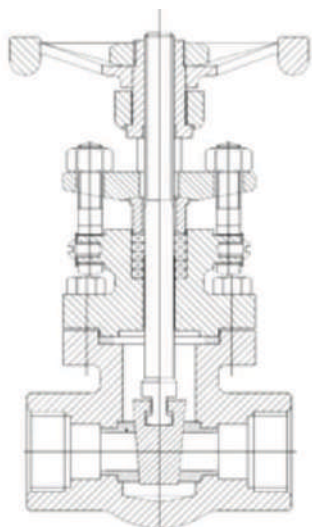
Sr. No	PART LIST	MATERIAL SPECIFICATION
1.	BODY	WCB, CF8, CF8M, CF3,CF3M,LCB,CA15,GR.4A
2.	BONET/COVER	WCB, CF8, CF8M, CF3,CF3M,LCB,CA15,GR.4A
3.	HINGE	A276 TP 410,A276 TP 304, A276 TP 316
4.	BRACKET	WCB, CF8, CF8M, CF3,CF3M,LCB,CA15,GR.4A
5.	SEAT RING	WCB+13%CR,CF8,CF8M, A276 TP 410
6.	DISC	WCB+13%CR,CF8, A276 TP 410
7.	DISC RETAINING NUT	A276 TP 410,A276 TP 304, A276 TP 316
8.	DISC WASHER	A276 TP 410,A276 TP 304, A276 TP 316
9.	COTTER PIN	SS304,SS316,SS410
10.	HINGE PIN	A276 TP 410,A276 TP 304, A276 TP 316
11.	GASKET	SPW, SS316 + GRAPHITE,CAF/SPW,PTFE/SPW
12.	STUDS	A193 GR.B7, A193 GR.B8, A193 GR.B8M.
13.	NUTS	A194 GR.2H, A194 GR.8 , A194 GR.8M
14.	LIFTING EYE BOLT	CS,SS304

> Other special MOC can be provided as per customer requirements.

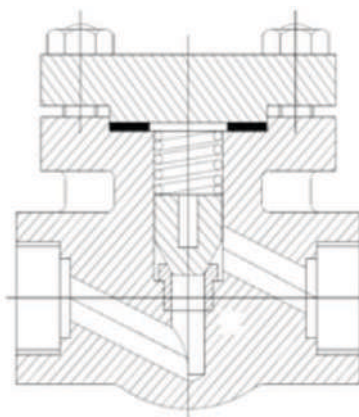
> Any special requirements provide as per customer requirements.



FORGED STEEL GATE, GLOBE & LIFT CHECK VALVE



GATE VALVE



LIFT CHECK VALVE



TECHNICAL STANDARDS

DESIGN STANDARDS :- API 602 / EN ISO 15761 / ASME B16.34

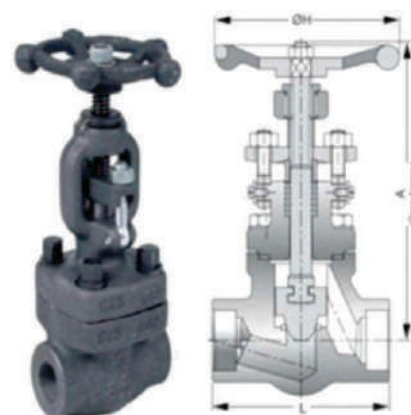
SCREWED END :- BSP (BS21) / NPT (ASME B1.20.1)

SOCKET WELD END :- ASME B16.11 / BUTT WELD - ASME B16.25

FACE TO FACE :- MANUFACTURERES

TESTING STANDARDS :- API 598 / EN12266-1

SIZE :- DN 15 TO DN 65, CLASS 150 TO 1500



Globe Valve

Sr. No	PART LIST	MATERIAL SPECIFICATION
1.	BODY,BONNET,COVER & GLAND FLANGE	ASTM A105 /ASTM A182 Gr.F304,F316,F304L, F316L,F11,F22,A350 Gr.LF2
2.	WEDGE & DISC	ASTM A217 Gr.CA15, ASTM A351 Gr.CF8/CF8M/ CF3/CF3M
3.	STEM, SEAT RING & GLAND	ASTM A276 Tp.SS410/SS304/SS316/SS304L/SS316L
4.	YOKE SLEEVE / YOKE BUSH	S.G.Iron/ Ni-Resist ASTM A439 Gr.D2
5.	PACKING	GRAFOIL / BRAIDED GRAPHITE
6.	GASKET	SPW SS304/ 316+GRAFOIL, SPWSS304/316+PTFE
7.	SPRING	SS304/SS316
8.	STUD & NUT	ASTM A193 B7,B7M,B8,B8M / ASTM A320 L7,L7M ASTM A194 2H,2HM,GR.8,8M / GR.7, 7M
9.	HAND WHEEL	MALLEABLE IRON / CARBON STEEL

> Other special MOC can be provided as per customer requirements.

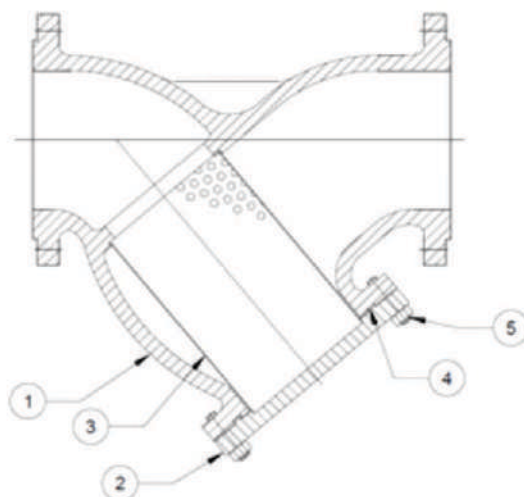
> Valves shall be supplied with welded flanges for class 150/300 if required

> Air seat & Back seat test not applicable for Lift Check Valves

> Any special requirements provide as per customer requirements.



Y-TYPE STRAINER



TECHNICAL SPECIFICATION -

SIZE: DN15 TO DN350

END CONECTION : ASME B16.5/SCREWED END

PRESSURE : #150 TO #300

Design Standard: MFG.STANDARD.

TESTING & INSPECTION: API 598

FACE TO FACE : DIN 3202 (Part -1) for size 200mm & Smaller and ASME B16.10 for size 250mm & Larger

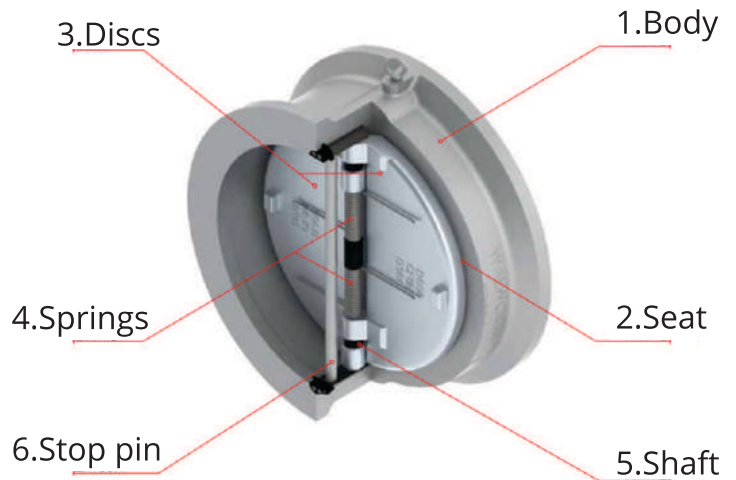
Sr. No	PART LIST	MATERIAL SPECIFICATION
1.	BODY	WCB, CF8, CF8M, CF3,CF3M
2.	END COVER	WCB, CF8, CF8M, CF3,CF3M
3.	SCREEN/ MESH	SS304/SS316/SS316L
4.	GASKET	PTFE/GFT/CFT
5.	STUD &NUT	ASTM A193 B7,B7M,B8,B8M / ASTM A320 L7,L7M ASTM A194 2H,2HM,GR.8,8M / GR.7, 7M

> Other special MOC can be provided as per customer requirements.

> Any special requirements provide as per customer requirements.



DUAL PLATE –CHECK VALVE



TECHNICAL STANDARDS:

SIZE : 2" TO 20" (DN 50 TO DN 500)

CLASS: PN 20 & # 150

Design & MFG. STANDARDS: API 594

FLANGE: ASME B16.5, ASME B16.47

INSPECTION & TESTING STANDARD : API 598

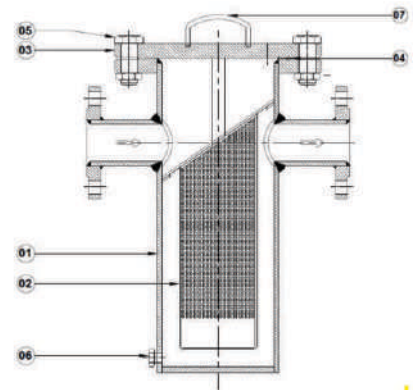
Sr. No	PART LIST	MATERIAL SPECIFICATION
1.	BODY	WCB, CF8, CF8M, CF3,CF3M,LCB,CA15,GR.4A
2.	SEAT	METAL TO METAL,PTFE,EPDM
3.	DISCS	CF8, CF8M, CF3,CF3M
4.	SPRING	Inconel X-750
5.	SHAFT	SS410,SS304,SS316
6.	STOPPER PIN	SS410,SS304,SS316

> Other special MOC can be provided as per customer requirements.

> Any special requirements provide as per customer requirements.



BASKET TYPE STRAINER



TECHNICAL STANDARDS:

SIZE : 2" TO 24" (DN 50 TO DN 350)

CLASS: PN 20 & # 150

Design & MFG. STANDARDS: BS 6755 PART 1

FLANGE : ASME B16.5, ASME B16.47

INSPECTION & TESTING STANDARD : API 598

Sr. No	PART LIST	MATERIAL SPECIFICATION
1.	BODY	WCB, CF8, CF8M, CF3,CF3M,LCB,CA15,GR.4A
2.	SCREEN/MESH	SS304,SS316,SS316L
3.	COVER	WCB, CF8, CF8M, CF3,CF3M,LCB,CA15,GR.4A
4.	GASKET	ASBESTOS FREE (BS 7531)
5.	STUD & NUT	A193 GR.B7, A193 GR.B8, A193 GR.B8M, A194 GR.2H, A194 GR.8, A194 GR.8M
6.	PLUG	SS304,SS316(1/2" SCREWED)
7.	LIFTING HOOK	MS,SS304

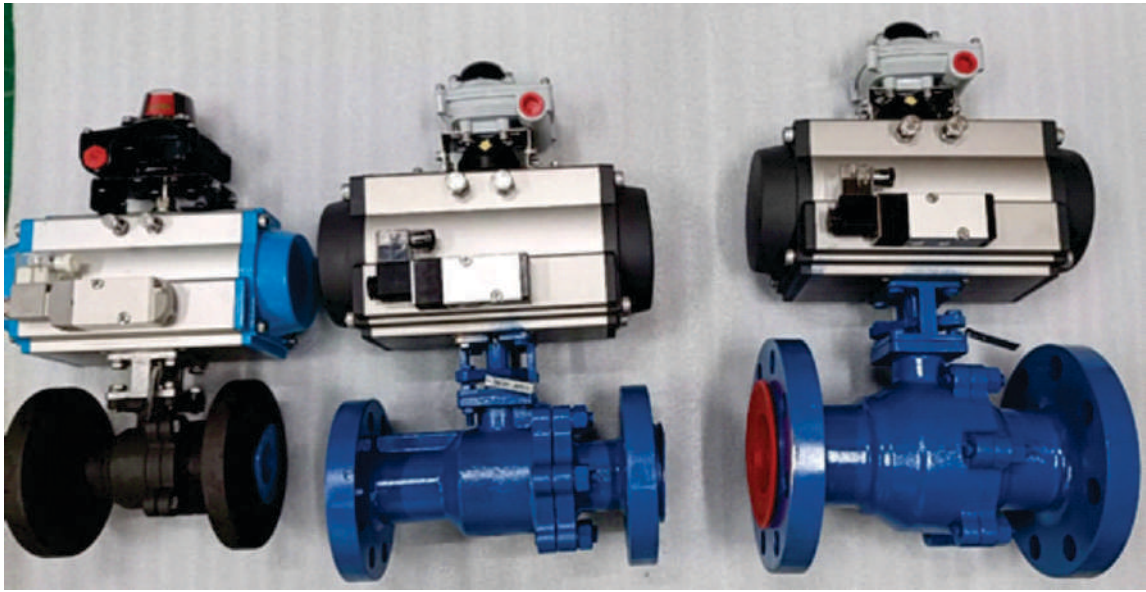
> Other special MOC can be provided as per customer requirements.

> Any special requirements provide as per customer requirements.



STARTFLO CONTROLS
The Masters in Flow Technology

AUTOMATION VALVES





NON FERROUS METAL VALVES



NON RISING SPINDLE GLOBE VALVE



RISING SPINDLE GLOBE VALVE



GATE VALVE



GATE VALVE



BALL VALVE



GATE VALVE



MACHINE SHOP & TESTING FACILITY



TEST RIG



www.startflocontrols.com



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