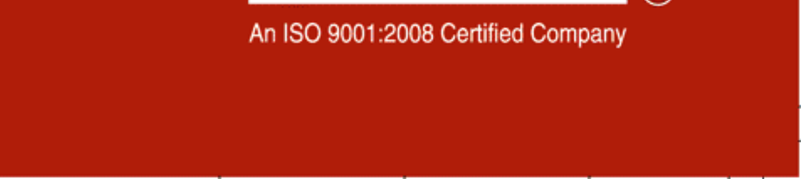
2 Way **Butterfly Valve**
Fitted With **Pneumatic**
Double Acting / Spring Return Actuator

1260 SERIES



YES. WE CARE...

| Courteously | Attentively | Respectably | Effectively |

SUDE®

An ISO 9001:2008 Certified Company

SUDE Offers **Proven Design Butterfly Valve** With Preferred Features For **Advance Technology**

Index

A PROVEN DESIGN...

With features and benefits engineers and users prefer and manufactured with advanced technology, Sude offers Butterfly Valve for today's water \ wastewater professional a superior valve at an affordable price.

ADVANCED TECHNOLOGY

Sude is totally committed to providing highest quality valves and outstanding service to our customers. Complete customer satisfaction is our goal.

Incorporating the latest in valve manufacturing technologies Sude assures a consistent, high quality valve that will provide years of trouble-free service.

A butterfly valve is from a family of valves called quarter turn valves. The "butterfly" is a metal disc mounted on a rod. When the valve is closed, the disc is turned so that it completely blocks off the passageway. When the valve is open, the disc is rotated a quarter turn so that it allows unrestricted passage. The position of the disc is effected from outside the valve.

Butterfly valves are utilized in many aspects of our lives. One of the most common examples of a butterfly valve is in the carburetor of car. In a carbureted car, the "Gas" pedal actually operates a butterfly valve that controls the engine's air intake. When the driver depresses the gas pedal all the way to the floor the butterfly valve opens all the way as described above to allow air to pass freely into the carburetor combustion chambers, where it is ignited by the engine.

A butterfly valve can also be partially opened. When a car is at idle, the valve is open only slightly allowing just enough air to pass through to maintain the idle speed. When the gas pedal is pressed a little the butterfly valve opens a little further and so on.

There are different kinds of butterfly valves, each adapted for different pressures and different usage. The resilient butterfly valve, which uses the flexibility of rubber, has the lowest pressure rating. The high performance butterfly valve, used in slightly higher-pressure systems features a slight offset in the way the disc is positioned. Which increases the valve's sealing ability and decreases its tendency to wear. The valve best suited for high-pressure systems is the tricentric butterfly valve, which makes use of a metal seat and is therefore able to withstand a greater amount of pressure.

The butterfly valve has head loss characteristics of a full bore valve. The design is based on use of an engineered disc of the same dia as the bore of the pipe arranged to pivot such that when it is across the bore is close off the flow path. When turned through 90 ° the disc provides minimum resistance to the flow.

The butterfly valve has been developed for many duties it now provides optimum solution for a leak tight on-off valve supplanting the gate valve. The butterfly valve can be engineered as a small valve of 25mm bore and can be made for extremely large sizes above 5000mm bore. Depending on the valve size high working pressures can be handled.

The main variations for this valve are the methods of sealing the perimeter of the disc in its closed position. The simplest variation is to use an elastomer lined bore which is an interference fit on the disc. The other variations are based on off setting the disc plane from the axis of rotation allow the disc to close against a circular face seal such that the fluid pressure increases the seal effect. Metallic seals are available allowing the valve to be used for a wide range of fluids at high temperatures.

Complete Seal

SUDE

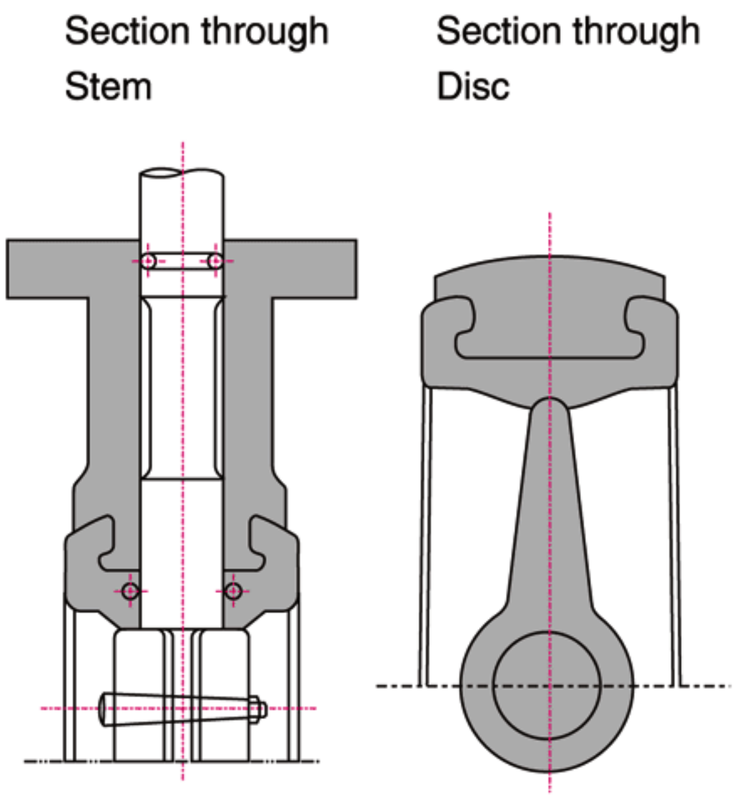
An outstanding feature of the Butterfly Valve is the unique seat ring design (illustrated) which gives bubble tight closure against flow in either direction at pressures up to 10 Kgf/cm^2 (150 psi).

This is achieved with an increased thickness of the seat ring at the point of closure whereby the disc perimeter is forced into the ring, the reaction of which completes the seal.

The grooves in the body which accommodate the ears of the seat ring are designed to accept the calculated compression of the ring when bolted between the flanges. This prevents distortion of the seat ring which could affect correct shut-off or increase operating torque.

Butterfly Valves are fitted with seat rings in a variety of rubber materials which all offer high wear resistance and stable elasticity. Higher durability over metallic seats is assured.

A variety of compounds is offered to suit most fluids.

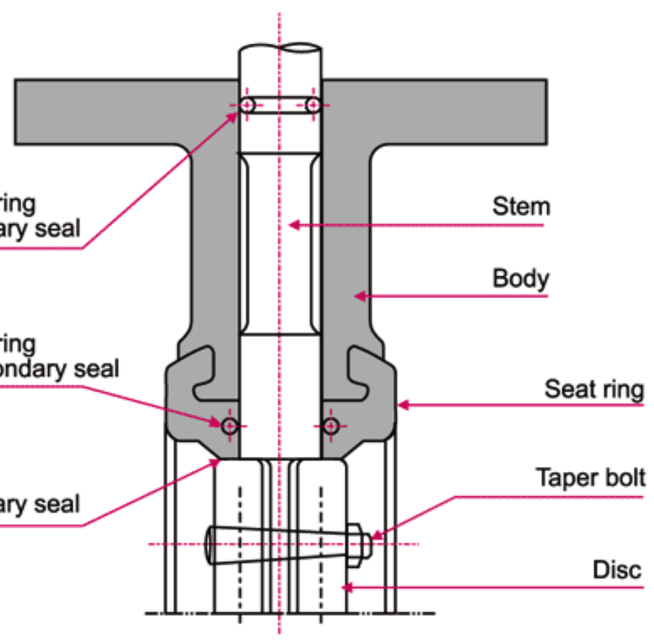


Leakproof Stem Seal

SUDE

There is no media contact with the body. A completely leakproof stem seal however is offered with Butterfly Valves by the three sealing points illustrated.

- Primary Seal : Close fit between machined flat face of disc and large raised area of seat ring ensures perfect seal.
- Secondary Seal : 'O' ring between stem and body eliminates ingress of dust and dirt.
- Tertiary Seal : 'O' ring between stew and seat ring. A stainless steel 'O' ring housing is moulded in the seat ring to ensure a perfect stem seal.
- Butterfly valves therefore can be used on vacuum service.

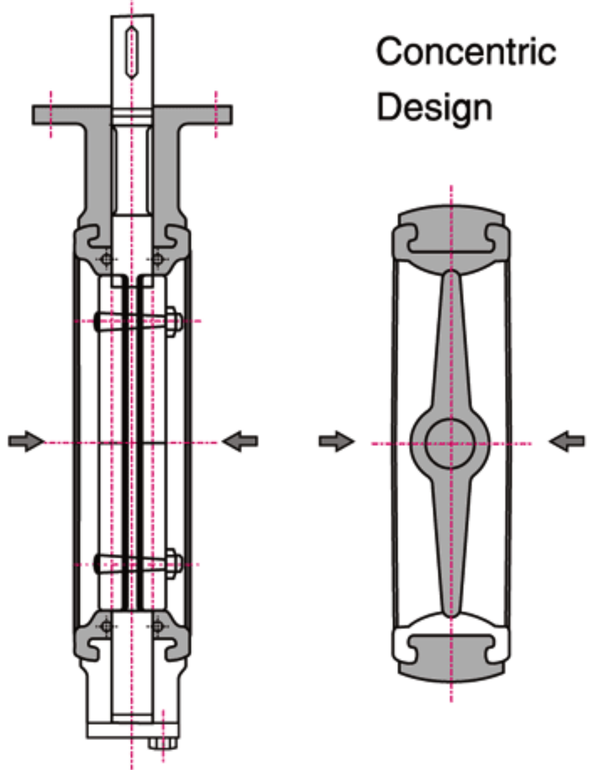


Concentric and Eccentric Disc Comparison

SUDE

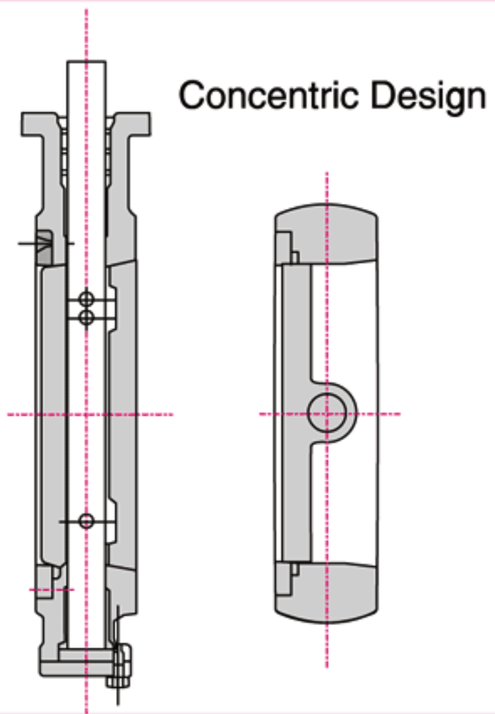
Concentric Disc Design.

- Developed for water services up to 10 Kgf/cm^2 (150 psi.)
- Handles flow in either direction.
- Body fully protected from corrosion by liner.
- Low pressure drop (good Cv characteristics).
- Streamlined concentric disc minimizes turbulence and erosion.
- Self Cleaning seat area.
- May be installed with shaft horizontal or vertical.
- Greater thickness of liner at seating area offers longer service life.
- Flange gaskets not required.



Eccentric Disc Design

- Developed for oil cargo services up to 16 Kgf/cm^2 (240 psi).
- Accepts flow in one direction only.
- Not usually fully lined.
- Higher pressure drop especially in sizes under 150 mm.
- Eccentric Disc generates more turbulence and erosion.
- Seating areas not self cleaning.
- Should be installed with shaft horizontal.
- Smaller higher stressed seating area prone to give shorter service life.
- Flange gaskets required. No control over bolt pressure on gaskets.



Reduced **Flow Resistance**

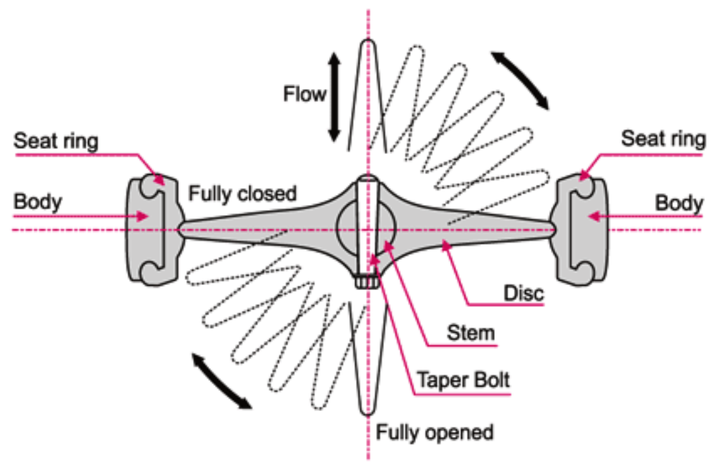
SUDE

The concentric streamlined design of body and disc offers minimal resistance to flow. By installing Butterfly valves instead of globe valves the pressure drop through a pipe system can be greatly reduced.

When partly opened, gate valves "Chatter" and tend to self destruction.

This cannot occur with Butterfly Valves which give smooth flow characteristics.

The rugged construction of the disc and the additional bearing points along the stem, helps to combat spindle deflection under pressure surge and the stainless steel taper bolts ensure positive disc attachment.



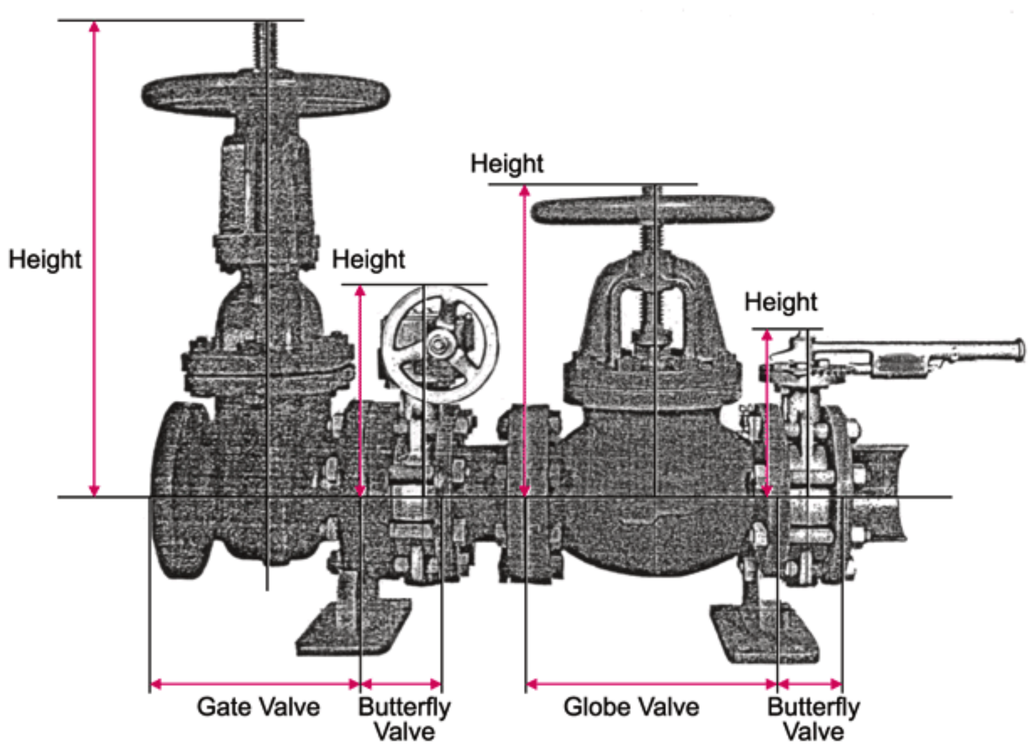
Preferred **Features**

SUDE

Sude offers Butterfly valve which is designed to provide long life and trouble-free performance. If repairs do become necessary, the valve is also designed for easy field repair. The shaft seal incorporated V-type packing which is easily replaced in the field without removal from the line. Adjustment of the resilient seat is easily performed with a socket wrench...no tow-part epoxy or urethane to mix...no hypodermic needles to special order. Our unique Tri-Loc seat retention system assures seat retention by retaining the seat through three different mechanical means to assure long-term dependable service.

Comparison with Conventional Valves

SUDE



1. **Light and Compact :** Butterfly Valves offer savings in weight, length and headroom. Design is more compact and costs are reduced.
2. **Easy Maintenance :** The simple design of Butterfly Valves facilities quick dismantling and parts replacement. maintenance cost savings are considerable.
3. **Smooth & Quick Operation :** 90^0 turn for Open/Shut operation. Leaver action simple one man function. Gear operation is three to five times faster than standard gate valves.
4. **Low Cost :** substantially cheaper than convential Valves.

Design Features

SUDE

Stem connection available in standard sizes or optional sizes to match standard secondary top plate drilling.

Top plate double drilled to fit ISO 5211 dimensions and standard secondary bolt circle dimensions. All handles, gear operators and pneumatic actuators are designed to mount directly to Valves.

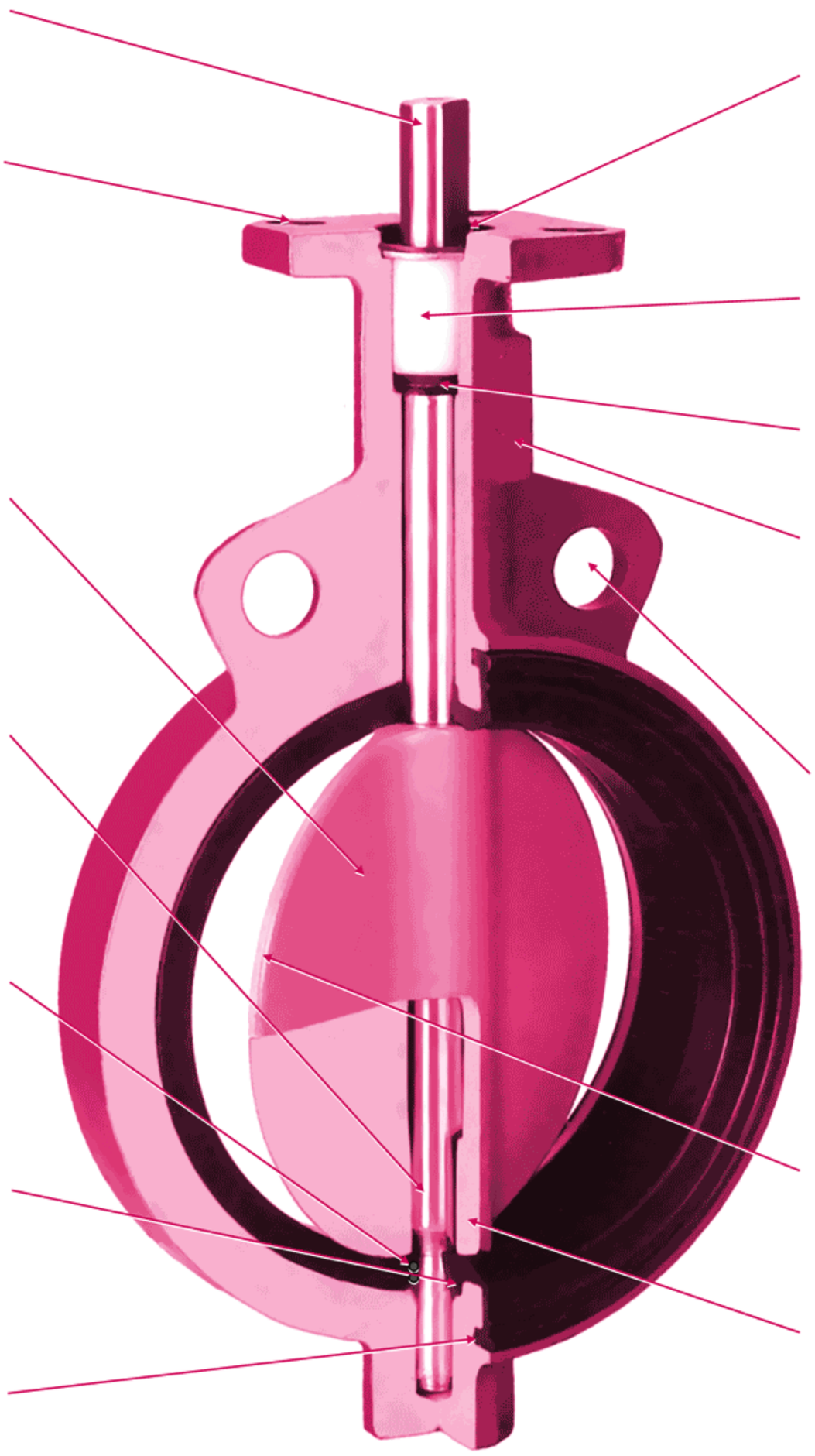
Nylon PA 12 coated disc option ensures excellent corrosion resistance to several chemical media. The hard, non-porous sintered polymer has very low hygroscopicity and is suitable for use in drinking water and non-alcoholic foodstuffs.

One piece stem with close tolerance double D drive eliminates the need for disc screws or taper pins.

Double 0-rings are molded in both upper and lower journals providing a superior secondary seal.

Unique "Center-Lock" seat design virtually eliminates any seat movement during the seating and un-seating of the disc.

Heavy duty square-grooved seat design with molded O-ring seals to serve as flange gaskets. EPDM and Buna-N seats are peroxide cured to yield the best elastic properties of the elastomer.



Unique stem retention system to provide blow-out proof stem and easy assembly and dis-assembly of valve.

Heavy duty acetal bushing absorbs the forces acting on the stem/disc assembly due to line pressure.

Bi-directional 'IT cup stem seal.

Heavy duty one-piece body with extended neck for 2" piping insulation. Standard coating is two coats of hard, Zinc-rich epoxy for excellent corrosion resistance.

Two flange locating holes for sizes up to 12" and four flange locating holes from size 14" to 24" for easy alignment of valve during installation. They meet ANSI #125 /150 or other world drilling standards.

High strength disc with hand polished disc edge and hubs.

Precision machined radius on the upper and lower disc hubs is pressed against upper and lower seat sealing faces for achieving primary sealing between disc and seat.

Types Available

PN10 Rating **Wafer Type Butterfly Valve**

SUDE

PN10 rated has integrally molded elastomer body liner, is designed to outperform valves with loose liners. The elastomer liner is molded directly in the body & vulcanized in-situ, ensures that the liner lasts the entire life of the valve. These valves are mostly used for HVAC systems and are available for a size ranging from 50mm to 300 mm used for Water & Air Services.

The integrally molded liner provides a stable seat which overcomes the tendency of the disc to push the seat out of position. In situ vulcanizing provides the desired strength to the liner. Plasticizer in the elastomer formulation ensures a smooth surface which minimizes the friction between disc and liner due to which though the sealing is tight the operating torque is low.

Butterfly valve has a contoured disc which ensures a smooth flow with minimum resistance and of course with a improved flow coefficient (Cv) and they are with flangeless connection mainly suitable for holding between the flange Confirming to 150 rating

Valve Features And Benefits

1. One Piece Ductile Iron Body Casting Ensures High Strength with Minimum Weight. Compatible with ANSI 125/150
2. Top Actuator Mounting Pad to ISO-5211 Direct Mount Capabilities.
3. O-Ring Give Positive Sealing in Both Directions
4. PTFE Bushings for Shaft Support and Positive Alignment
5. One Piece Shaft Ensures Positive Disc Positioning
6. Precision Machined Disc Ensures Tight Shut-off with Minimum Torque and Longer Seat Life.
7. Phenolic Backed Cartridge Seat is Stretch Resistant, Non- Collapsible and Blowout Proof
8. Seat Face Negates Need for Gaskets

Material Specifications for **PN10 Rating Valve**

SUDE

The concentric streamlined design of body and disc offers minimal resistance to flow. By installing Butterfly valves instead of globe valves the pressure drop through a pipe system can be greatly reduced. When partly opened, gate valves "Chatter" and tend to self destruction. This cannot occur with Butterfly Valves which give smooth flow characteristics. The rugged construction of the disc and the additional bearing points along the stem, helps to combat spindle deflection under pressure surge and the stainless steel taper bolts ensure positive disc attachment.

- **Sizes** : Ranging from 50 mm to 300 mm
- **Body Material** : Cast Iron to BS 145Gr. 200
- **Body Liner** : Nitrile Rubber OR EPDM
- **Disc Material** : Cast Iron to BS 1452Gr 250

} Other options on request

- **Shaft Material** : BS970-080M40
- **Characteristic** : On, Off / Linear Control
  Up to 60 degree opening

Pressure - Temperature

Liner Material	Tempe-rature (max)	Working Pressure (bar)	Test Pressure (bar)	
			Body	Seal
Nitrile	70° C	10	15	11
EPDM	90° C			

Types Available

PN16 Rated **Wafer Type Butterfly Valve**

SUDE

Slim Seal Wafer Type Butterfly have an integrally molded in-situ bonded elastomer liner available in a size range of 50 to 600 mm with a pressure rating of PN16.

STANDARDS :

2" to 12" valves confirm to the requirements of BS5155 & 14" to 24" valves confirm to API 609 and ISO 5752. The valves are of short pattern type and have been designed to fit without gaskets between flanges drilled to BS 10 Table 'D','E' &' 'F', ANSI 125 / 150, DIN ND 10 / 16, BS 4504 (PN10/16), Table 6 to 9 of IS6418, Tables 10 to 20 of IS6392 and Tables 4 to 6 of IS 1538.

Features & Benefits

FEATURES	BENEFITS
Integrally moulded in - situ bonded body seat	Lower Torque requirement No maintenance No tearing and distortion of liner Exceptionally long seat life Uniform sealing
PTFE coated S.S Shaft	Permanent dry lubrication Ease of operation Prevents corrosion on shaft
Primary and secondary seals integral with body lining	Ensures compatibility with line fluid
Different disc and seat combination available	Wide application Range
Weatherseal feature (50 to 300 mm sizes)	Atmospheric sealing to valve internals
Spherical machined and polished disc	Ensures longer seat life, easier operation and tight shut off
External coating of Rust preventive primer and final coat of enamel paint	Provides excellent external corrosion resistance

Material Specifications for **PN16 Rating Valve**

SUDE

Part	Material of Construction		
Body	Cast Iron to BS 1452 Gr 220 SG Iron to BS 2789 Gr 420/12	SS to ASTM A 351 Gr CF8/CF8 m CS to ASTM A 216 Gr WCB	Other options on request
Body Liner	Black Nitrile EPDM (General purpose)		
Disc	SG Iron to 2789 Gr 420/12 nylon coating Al. Bronze to BS 1400 Gr. AB2/AB1 SS to ASTM A 351 Gr. CF8/CF8 m edge polished		
Shaft	AISI 410 PTFE coated for permanent dry lubrication		
Bearings	PTFF Sheet bearings provided for valves with SS discs. Sizes 350 to 600 mm have Phosphor Bronze bearings as standard		

ASSEMBLED WITH :

a) Pneumatic Rotary Double Acting Stay put type Actuator OR
b) Spring Return Actuator available for Fail safe operation.

Material & Applications

General Applications	Continuous working Temperature Range		Maximum Working Pressure	Disc Material	Seat Material
Oils, Fuels, Water, Air, Gases, Powders, Pellets, Slurries etc.,	Hydrocarbons (Except Aromatics) Other Liquids Dry Services	-10° C to 90° C -10° C to 80° C -10° C to 60° C	16 bar	Nylon Coated SG Iron	Black Nitrile (2)
Brines, Sea water, Estuary water, Marine Bilge & Ballast Systems	Liquids	-10° C to 80° C	16 bar	Aluminum Bronze	
Steam, Water, Hot Gases, Powders, Slurries and aqueous slurries of an abrasive nature	Liquids Dry Services	-10° C to 120° C -10° C to 100° C	14 bar	Stainless Steel Periphery Polished	General Purpose EPDM

Actuator Construction

SUDE

The piston incorporation racks and end covers are die casted in Aluminum alloy. Barrel is extruded, Aluminum alloy hardened and treated, further finished with deep anodized process to form a protective layer to resist atmospheric corrosion. The Actuators are also available in stainless steel 316 & Nylon plastic construction for Food grade and Chemical Industries application. The internal materials of the Aluminum, SS316 & Nylon plastic actuator are having pinion which is made up of steel, precision cut, heat treated and ground & also has a high grade of synthetic seals. The Actuators before assembly is lubricated with high temperature resistant smooth grease. The Actuators are with compact design operates through 90 degree angle of actuation.

Air Pressure Requirement :

a) For Double Acting Actuator - 3.5 kg / cm^2 (Minimum) & 8.5kg / cm^2 (Maximum)

b) For Spring Return Actuator - 4.0 kg / cm^2 (Minimum) & 8.5 kg / cm^2 (Maximum)

However Air Pressure Requirement is much dependent on size of the valve, working pressure, quality of Butterfly valve and many other factors.

The Actuators are also Available for High Temp Application

Accessories

SUDE

a) For Double Acting Actuator -

4 way 5 Port Single Coil / Double Coil solenoid valve in General purpose or Flame proof and explosion coils.

b) For Spring Return Actuator -

3 way Single Coil / Double Coil Solenoid valve in General purpose or Flame proof and explosion coils.

Accessory Common for Double Acting / Spring Return Actuator :

a) Pressure Regulator
b) Limit Switches
c) Filter Regulator with Lubricator
d) Gear Box with hand wheel for manual operation
e) Valve Positioner for characteristic controlled application.
f) I to P Converter.
g) Electro pneumatic positioners
h) Position Indicator
i) Position Transmitter
j) Cyclic Timer OR Sequential Timer
k) 3 Way / 4 Way Key operated valves
l) Stimulator
m) Travel Stops
n) Flow Restricter
o) Silencers with Flow Control Valve

Optional :

a) PID Controller along with PT - 100 Senso supplied with panel.
b) Pressure Transmitter supplied with panel.

Tests

SUDE

The valves are tested according to their respective standards for hydrostatic, seat leakage and working pressure tests. Unless and otherwise specified Butterfly valves are constructed and tested for 10 / 16 kg / cm^2 working pressure.

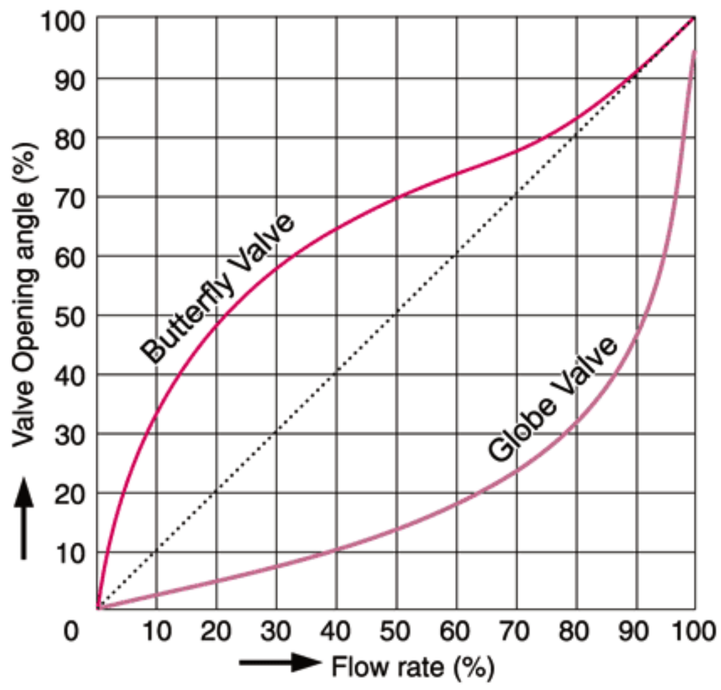
Notes :

a) Actuator rating is for valve working pressure 10 kg / cm^2 for PN10 & 16 Kg / cm^2 for PN16
b) Timing given is approximate and is useful as an indicating figure only when solenoid valve is directly coupled with the Actuator. Average time under 50% load condition is 80 PSI working pressure.
c) All data is complied in laboratory test, in actual field, working may differ.
d) Width and weight will change with rating of flanges and accessories.

Flow Rate Characteristic Curve

SUDE

The curve shows the relationship between valve opening and rate of flow at a constant pressure differential. Generally Butterfly Valves are most suitable for controlling flow but are not recommended for flow control where the valve opening is below 30^0. (Ideal : 35^0 to 70^0)



Technical Data for **PN10 Butterfly Valve**

SUDE

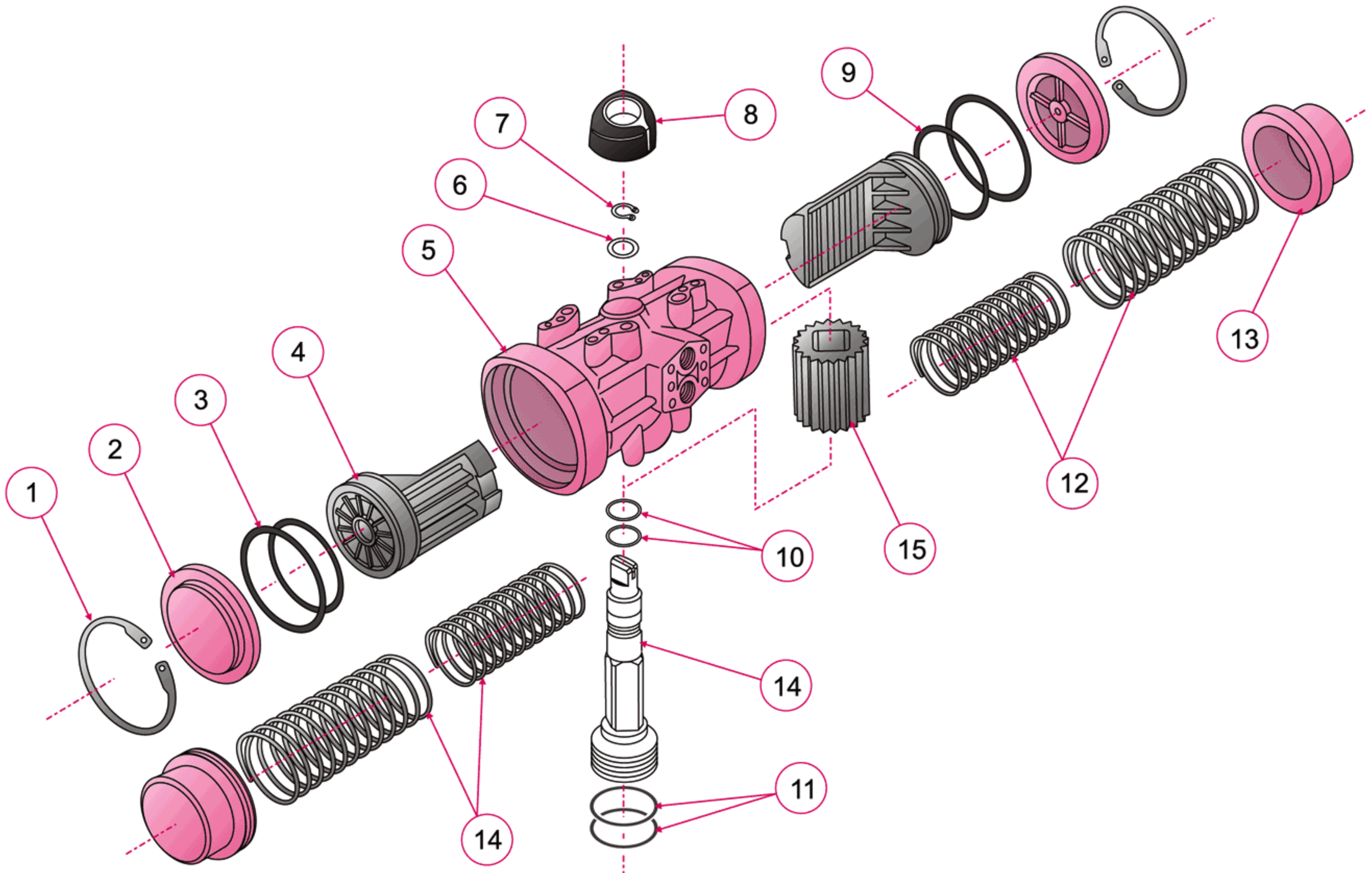
Valve Size	Prisma Model	Approx. Time For Open for Close		Weight PN10	Air Consumption Lts of Free Air	
mm	No.	SECS	SECS	Kgs	To Open	To Close
50	DAW	0.1	0.1	13	0.075	0.05
	SA00	0.2	0.2	14	0.15	
65	DAW	0.1	0.1	13.5	0.075	0.05
	SA00	0.2	0.2	14.5	0.15	
80	DA00	0.15	0.15	15	0.15	0.1
	SA00	0.2	0.2	15.5	0.15	
100	DA05	0.2	0.2	17	0.28	0.25
	SA05	0.25	0.25	18	0.28	
125	DA05	0.2	0.2	20	0.28	0.25
	SA10	0.3	0.3	21.0	0.35	
150	DA10	0.25	0.25	25	0.35	0.32
	SA15	0.4	0.4	27	0.65	
200	DA20	0.25	0.25	35	0.8	0.7
	SA20	0.5	0.5	38	0.8	
250	DA20	0.4	0.4	45	0.8	0.7
	SA25	0.8	0.8	52	1.5	
300	DA25	0.5	0.5	57	1.5	0.2
	SA25	0.8	0.8	62	1.5	

Technical Data For **PN16 Butterfly Valve**

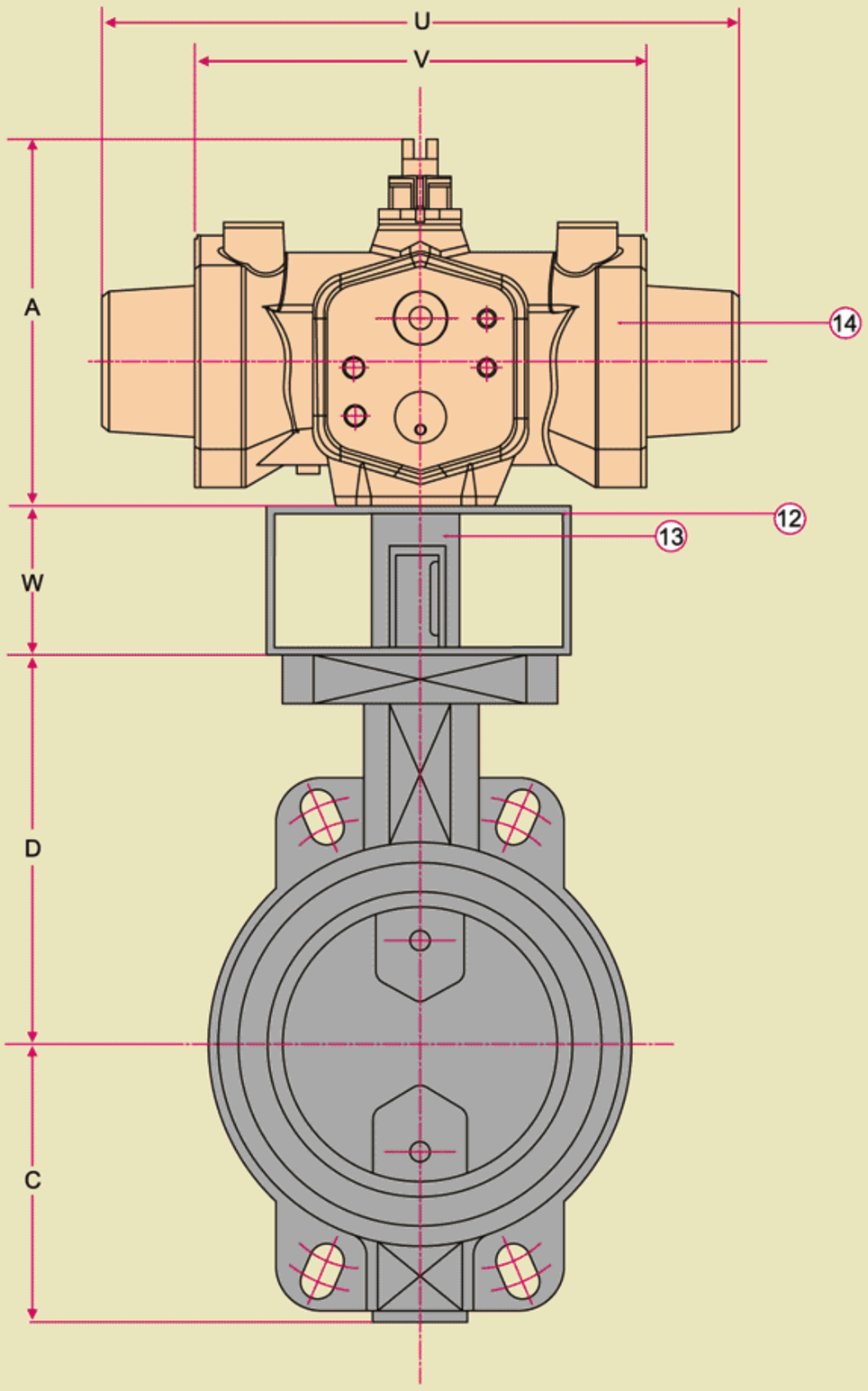
SUDE

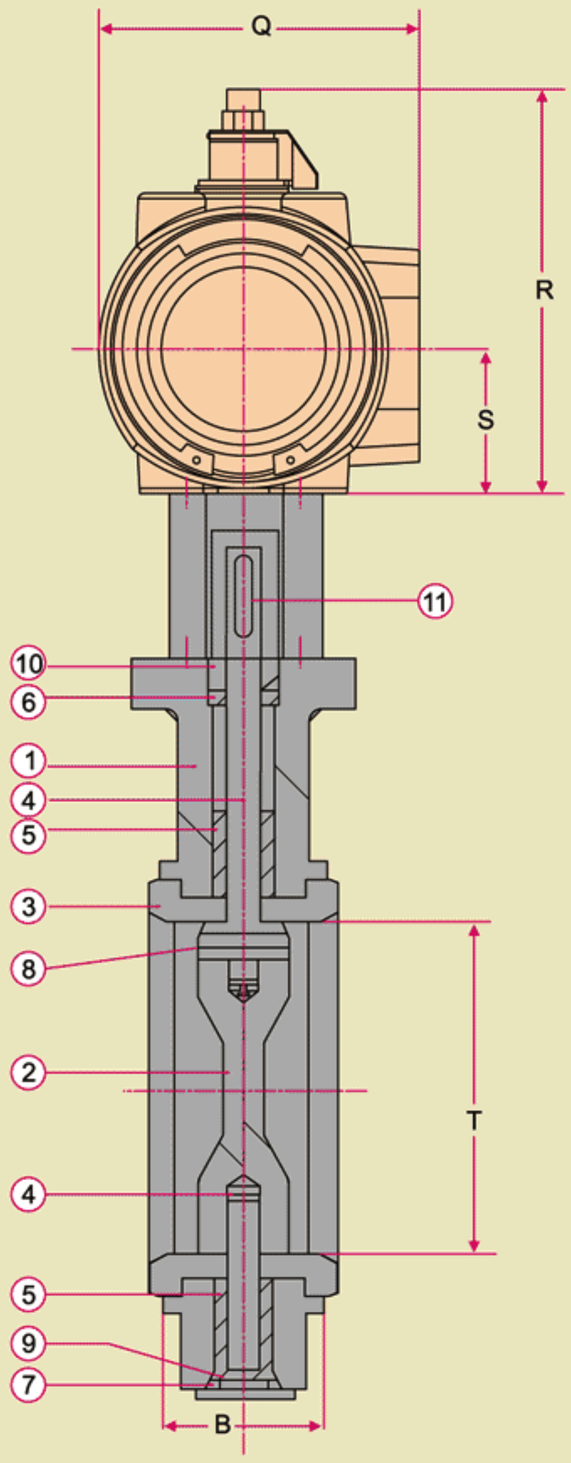
Valve Size	Prisma Model	Approx. Time For Open for Close		Weight PN16	Air Consumption Lts of Free Air	
mm	No.	SECS	SECS	Kgs	To Open	To Close (D.Act Only)
50	DAW	0.1	0.1	12.5	0.075	0.05
	SA00	0.2	0.2	13.5	0.15	
65	DA00	0.15	0.15	14	0.15	0.1
	SA05	0.25	0.25	15	0.28	
80	DA05	0.2	0.2	15.5	0.28	0.25
	SA05	0.25	0.25	16.5	0.28	
100	DA05	0.2	0.2	17	0.28	0.25
	SA10	0.3	0.3	18.5	0.35	
125	DA10	0.25	0.25	20	0.35	0.32
	SA5	0.4	0.4	23.0	0.65	
150	DA15	0.3	0.3	25	0.65	0.55
	SA20	0.5	0.5	29	0.8	
200	DA25	0.5	0.5	38	1.5	1.2
	SA25	0.8	0.8	42	1.5	
250	DA30	0.4	0.4	51	0.8	0.7
	SA30	0.8	0.8	60	1.5	
300	DA30	0.5	0.5	61	1.5	1.2
	SA40	0.8	0.8	95	1.5	
350	DA40	1.2	1.2	99	5.3	5.3
	SA40	2	2	122	5.3	
400	DA40	0.2	0.2	114	5.3	5.3
	SA50	6	6	165	10.5	
450	DA50	2	2	151	10.5	7
	SA50	6	6	186	10.5	
500	DA50	2	2	173	10.5	7
	SA50	6	6	208	10.5	
600	DA70	6	6	530	31	30
	SA70	14	14	570	31	

Part List of Actuator



No.	Description	Quantity	Material
1	Allen Screw / Circlip	12	AISI -304 Stainless Steel
2	Double Acting Cap	2	Aluminium Alloy (2) + (1)
3	Cap O-ring	2	N.B.R.
4	Piston	2	Aluminium Alloy
5	Cylinder	1	Aluminium Alloy (2) + (1)
6	Washer	1	Polyamide 6
7	Spring Clip	1	Steel (3)
8	Position Indicator	1	Polymide
9	Piston O-Ring	4	N.B.R.
10	O-Ring	2	N.B.R.
11	O-Ring	2	N.B.R.
12	Springs Set	1	DIN - 17223-C (2) (4)
13	Spring Return Cap	2	Aluminium Alloy (2) + (1)
14	Shaft	1	Steel (2)
15	Gear	1	Aluminium Alloy (5)





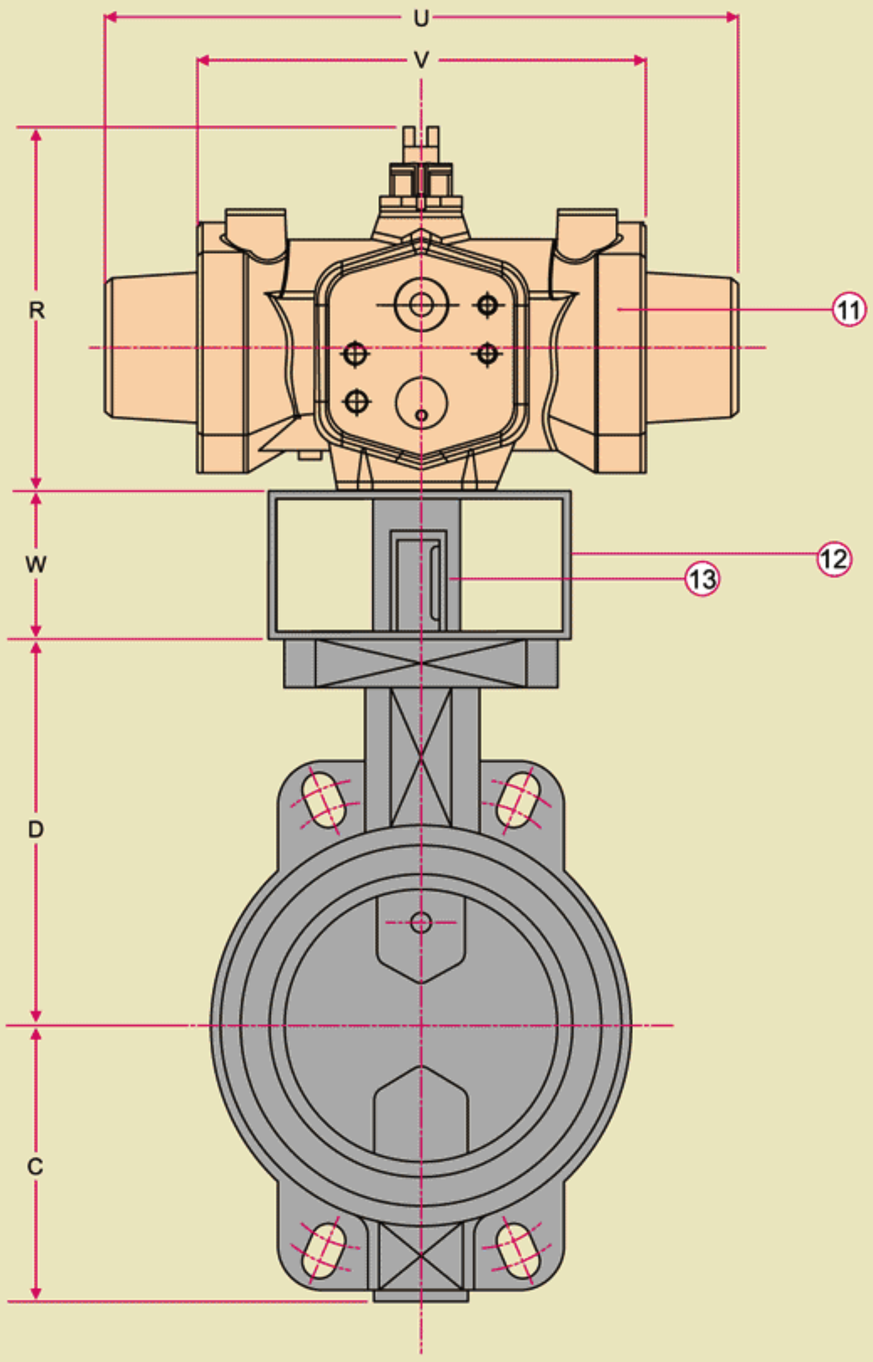
S.NO.	PART	MATERIAL
1	BODY	CAST IRON
2	DISC	SG IRON/SS304/316
3	BONDED SEAT	SLIM SEAL, NITRILE
4	SHAFT	SS410
5	BEARING	STEEL + PTFE

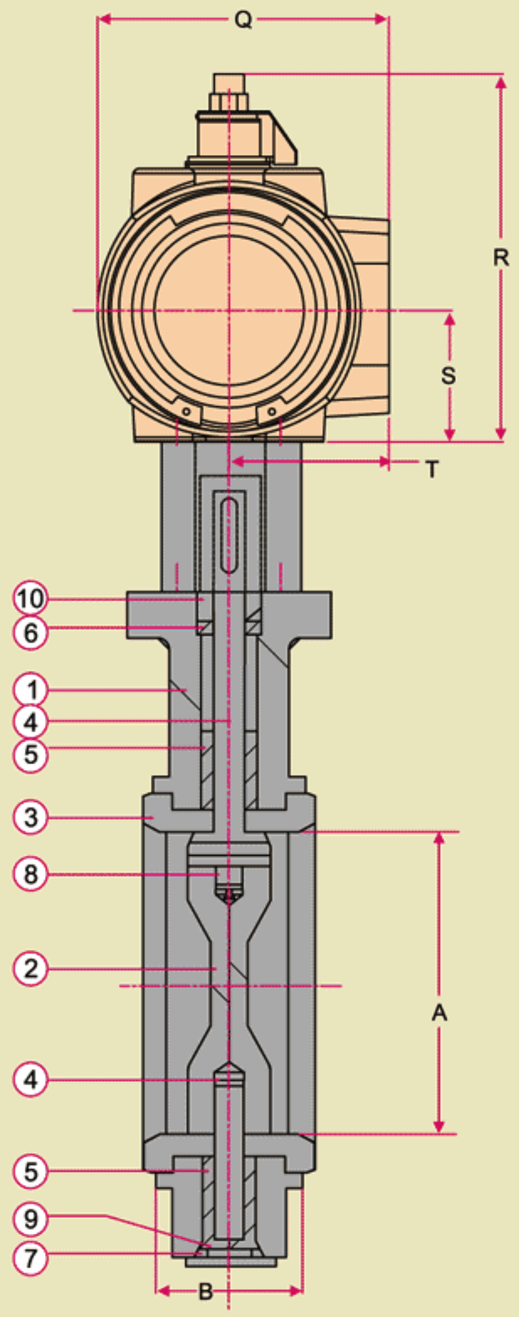
S.NO.	PART	MATERIAL
6	0-RING SHAFT	NITRILE
7	0-RING PLUG	NITRILE
8	TAPPER PIN	AISI316
9	PLUG	C-15
10	TOP BUSHING	POLYACETAL

S.NO.	PART	MATERIAL
11	KEY	ENS
12	MOUNTING BKT	MS
13	COUPLER	EN8
14	PNEUMATIC ACTUATOR	AL

VALVE SIZE	MODEL NUMBER	A	B	C	D	Q	R	S	T	U	V	W	WT. OF ASSY IN KGS.	Cv @		OPERATING TIME		AIR CONSUMPTION IN LTR	
														60°	90°	OPEN (SEC.)	CLOSE (SEC.)	TO OPEN	TO CLOSE
40	1260/PN16/40/DAW	40	33	68	103	68.5	85	31	37.5	-	109	40	5	50	100	0.2	0.2	0.075	0.05
	1260/PN16/40/SAW	40	33	68	103	68.5	85	31	37.5	143.5	109	40	5.5	50	100	0.3	0.3	0.075	—
50	1260/PN16/50/DAW	50	43	73	113	68.5	85	31	37.5	-	109	40	6	65	130	0.2	0.2	0.075	0.05
	1260/PN16/50/SA00	50	43	73	113	80	110	45	44	160	125	40	6.5	65	130	0.4	0.4	0.15	—
65	1260/PN16/65/DA00	65	46	80	121	80	110	45	44	-	125	40	7	120	240	0.3	0.3	0.15	0.1
	1260/PN16/65/SA05	65	46	80	121	98	122	47	53	194	146	40	8.5	120	240	0.5	0.5	0.28	—
80	1260/PN16/80/DA05	80	46	88	128	98	122	47	53	-	146	40	9	160	320	0.4	0.4	0.28	0.25
	1260/PN16/80/SA05	80	46	88	128	98	122	47	53	194	146	40	9.5	160	320	0.5	0.5	0.28	-
100	1260/PN16/100/DA05	100	52	104	146	98	122	47	53	-	146	50	10	280	560	0.4	0.4	0.28	0.25
	1260/PN16/100/SA10	100	52	104	146	102	127	50.5	55	236	182	50	15	280	560	0.6	0.6	0.35	—
125	1260/PN16/125/DA10	125	56	116	158	102	127	50.5	55	-	182	60	18	430	860	0.5	0.5	0.35	0.32
	1260/PN16/125/SA15	125	56	116	158	115	148	63	60	266	203	60	20	430	860	0.8	0.8	0.65	-
150	1260/PN16/150/DA15	150	56	138	174	115	148	63	60	-	203	80	22	640	1280	0.6	0.6	0.65	0.55
	1260/PN16/150/SA20	150	56	138	174	127	161	71	67	312	234	80	25	640	1280	1	1	0.8	—
200	1260/PN16/200/DA25	200	60	163	198	152	191	86	78	-	276	90	35	120C	2400	1	1	1.5	1.2
	1260/PN16/200/SA25	200	60	163	198	152	191	86	78	362	276	90	40	1200	2400	1.6	1.6	1.5	—
250	1260/PN16/250/DA30	250	68	203	245	177	211	96	94	-	349	100	43	1850	3700	1.2	1.2	2.05	1.9
	1260/PN16/250/SA30	250	68	203	245	177	211	96	60	479	349	100	50	1850	3700	2.4	2.4	2.05	—
300	1260/PN16/300/DA30	300	78	228	270	177	211	96	60	-	349	110	49	2700	5400	1.2	1.2	2.05	1.9
	1260/PN16/300/SA40	300	78	228	270	226	272	116	120	598	444	110	82	2700	5400	4	4	5.3	—
350	1260/PN16/350/DA40	336	78	265	312	226	272	116	120	-	444	110	110	3300	6600	2.4	2.4	5.3	5.3
	1260/PN16/350/SA40	336	78	265	312	226	272	116	120	598	444	110	129	3300	6600	4	4	5.3	-
400	1260/PN16/400/DA40	386	102	305	360	226	272	116	120	-	444	110	144	4400	8800	2.4	2.4	5.3	5.3
	1260/PN16/400/SA50	386	102	305	360	257.5	313	133	135	694	524	120	185	4400	8800	8	8	10.5	—
450	1260/PN16/450/DA50	436	114	330	390	257.5	313	133	135	-	524	120	168	6250	12500	4	4	10.5	7
	1260/PN16/450/SA50	436	114	330	390	257.5	313	133	135	694	524	120	196	6250	12500	8	8	10.5	-
500	1260/PN16/500/DA50	436	114	330	390	257.5	313	133	135	-	524	120	190	6900	13800	4	4	10.5	7
	1260/PN16/500/SA50	436	114	330	390	257.5	313	133	135	694	524	120	218	6900	13800	8	8	10.5	-
600	1260/PN16/600/DA50	586	154	435	490	257.5	313	133	135	-	524	125	228	10000	20000	4	4	10.5	7
	1260/PN16/600/SA70	586	154	435	490	402.5	428	191	216	742.5	135	298	10000	20000	14	14	31	-	

2 Way Pneumatically Operated **Butterfly Valve – PN10** Rating SUDE 1260





S.NO.	PART	MATERIAL
1	BODY	CAST IRON
2	DISC	SG IRON/SS304/316
3	BONDED SEAT	SLIM SEAL, NITRILE
4	SHAFT	SS410
5	BEARING	STEEL + PTFE

S.NO.	PART	MATERIAL
6	0-RING SHAFT	NITRILE
7	0-RING PLUG	NITRILE
8	TAPPER PIN	AISI316
9	PLUG	C-15
10	TOP BUSHING	POLYACETAL

S.NO.	PART	MATERIAL
11	PNEUMATIC ACTUATOR	ALUNINIUM
12	MOUNTING BRACKETS	IS2062
13	COUPLER	IS

VALVE SIZE	MODEL NUMBER	A	B	C	D	Q	R	S	T	U	V	W	WT. OF ASSY IN KGS.	Cv @		OPERATING TIME		AIR CONSUMPTION IN LTR	
														60°	90°	OPEN (SEC.)	CLOSE (SEC.)	TO OPEN	TO CLOSE
40	1260/PN10/40/DAW	40	33	68	103	68.5	85	31	37.5	-	109	40	5	50	100	0.2	0.2	0.075	0.05
	1260/PN10/40/SAW	40	33	68	103	68.5	85	31	37.5	143.5	109	40	5.2	50	100	0.3	0.3	0.075	—
50	1260/PN10/50/DAW	50	43	73	113	68.5	85	31	37.5	-	109	40	6	65	130	0.2	0.2	0.075	0.05
	1260/PN10/50/SA00	50	43	73	113	80	110	45	44	160	125	40	7	65	130	0.4	0.4	0.15	—
65	1260/PN10/65/DAW	65	46	80	121	68.5	85	31	37.5	-	109	40	7	120	240	0.2	0.2	0.075	0.05
	1260/PN10/65/SA00	65	46	80	121	80	110	45	44	160	125	40	8	120	240	0.4	0.4	0.15	-
80	1260/PN10/80/DA00	80	46	88	128	80	110	45	44	-	125	40	8.2	160	320	0.3	0.3	0.15	0.1
	1260/PN10/80/SA00	80	46	88	128	80	110	45	44	160	125	40	8.6	160	320	0.4	0.4	0.15	-
100	1260/PN10/100/DA05	100	52	104	146	98	122	47	53	-	146	50	10	280	560	0.4	0.4	0.28	0.25
	1260/PN10/100/SA05	100	52	104	146	98	122	47	53	194	146	50	11	280	560	0.5	0.5	0.28	—
125	1260/PN10/125/DA05	125	56	116	158	98	122	47	53	-	146	50	11.5	430	860	0.4	0.4	0.28	0.25
	1260/PN10/125/SA10	125	56	116	158	102	127	50.5	55	236	182	50	13	430	860	0.6	0.6	0.35	—
150	1260/PN10/150/DA10	150	56	138	174	102	127	50.5	55	-	182	60	16	640	1280	0.5	0.5	0.35	0.32
	1260/PN10/150/SA15	150	56	138	174	115	148	63	60	266	203	60	18	640	1280	0.8	0.8	0.65	—
200	1260/PN10/200/DA20	200	60	163	198	127	161	71	67	-	234	80	20	1200	2400	0.8	0.8	0.8	0.7
	1260/PN10/200/SA20	200	60	163	198	127	161	71	67	312	234	80	22	1200	2400	1	1	0.8	—
250	1260/PN10/250/DA20	250	68	203	245	127	161	71	67	-	234	90	30	1850	3700	0.8	0.8	0.8	0.7
	1260/PN10/250/SA25	250	68	203	245	152	191	86	78	362	276	90	36	1850	3700	1.6	1.6	1.5	-
300	1260/PN10/300/DA25	300	78	228	270	152	191	86	78	-	276	90	41	2700	5400	1	1	1.5	1.2
	1260/PN10/300/SA25	300	78	228	270	152	191	86	78	362	276	90	45	2700	5400	1.6	1.6	1.5	—

vignetgraphics.

CAT/1260/09-10

NOTE : TECHNICAL SPECIFICATIONS, DETAILS & DIMENSIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.
DIMENSIONS IN THE TABLE ARE APPROXIMATE SUBJECT TO FINAL CONFIRMATION BY SUDE.

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