

Be the Highest of Standards

McSYS[®]

TRIPLE OFFSET

TRIPLE OFFSET BUTTERFLY VALVE

McSYS[®]

Mechanical and Fluid Control Systems



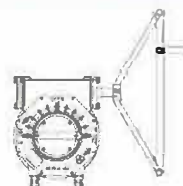
TRIPLE OFFSET BUTTERFLY VALVE SPECIFICATION

LAMINATED SEAT TYPE SPECIFICATION

950 Series



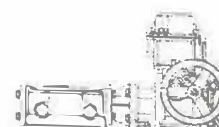
OPERATING METHOD



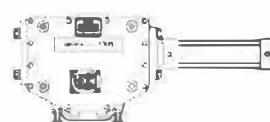
MANUAL



PNEUMATIC



ELECTRIC



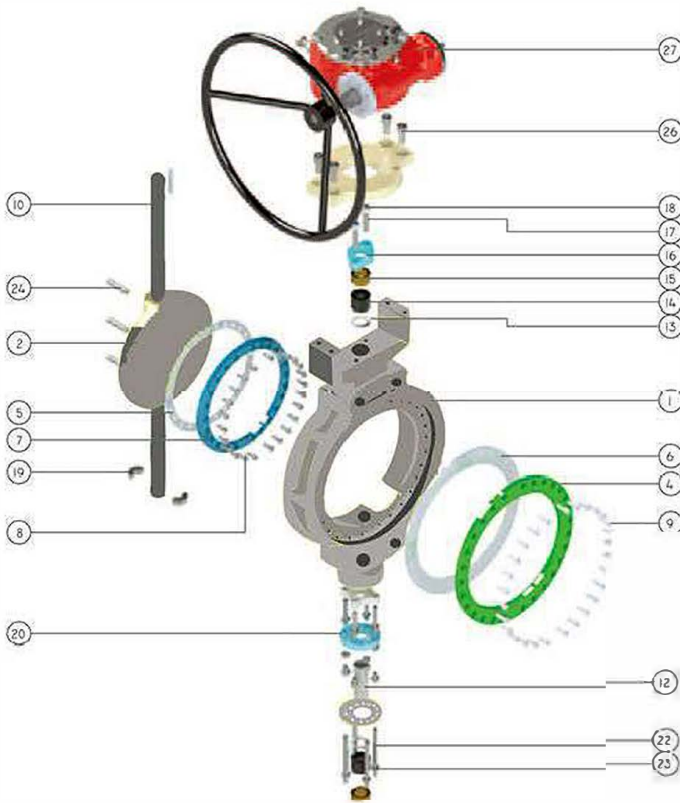
HYDRAULIC

DESCRIPTION

SIZE RANGE:	2"-120"
TEMP. RANGE:	-50 ~ 650°C
DESIGN:	API 609 / BS 5155 / ANSI B 16.34
TEST INSPECTION:	API 598 / ISO 5208
PRESSURE TEMP' RATINGS:	ASME / ANSI B 16.34 ,16.24
LEAKAGE:	ZERO LEAKAGE
FLUID:	WATER/SEA WATER/O2/CO2/H2/ COG/LDG/BFG/FOG/MIXED GAS/ DUST/STEAM/AIR/ HYDROCHLORIC ACID/SULFURIC ACID NITRIC ACID
FLANGE RATING:	ASME B 16.5/16.47 CLASS 150LB, 300LB,600LB KS(JIS) 10K, 16K, 20K, 30K, 40K BS 4504 DIN PN 10,PN 16,PN 25,PN 40 AWWA C207 CLASS B & D ,E,F

TRIPLE OFFSET BUTTERFLY VALVE EXPLODED VIEW

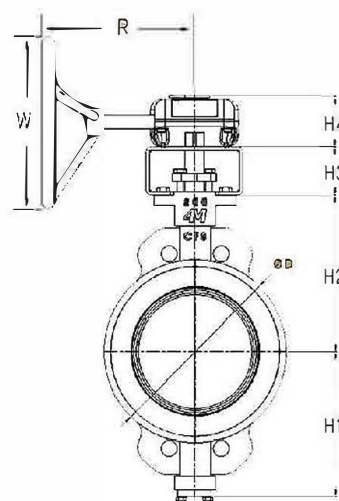
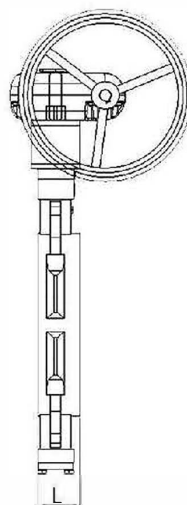
LIMINATED SEAT



NO	PART NAME	NO	PART NAME	NO	PART NAME
1	BODY	10	SHAFT	19	SEGMENT RING
2	DISC	11	MAIN BUSH	20	RING HOLDER (TOP)
3	BODY SEAT	12	STUB BUSH	21	RING HOLDER(BOTTOM)
4	DISC SEAT	13	PACKING RING	22	ADJUSTABLE BOLT
5	BODY SEAT GASKET	14	PACKING	23	ADJUSTABLE NUT
6	DISC SEAT GASKET	15	GLAND RING	24	SHAFT PIN
7	INSERT RING	16	GLAND FLANGE	25	TOP FLANGE
8	INSERT RING BOLT	17	GLAND BOLT	26	TOP FLANGE BOLT
9	DISC SEAT BOLT	18	HEX, NUT	27	GEAR BOX

SOLID SEAT TYPE

951 Series



Valve Seating Torques (in-lbs)

SIZE		중량	DIMENSION (mm)							
Inch	mm		L	ØD	H1	H2	H3	H4	R	ØW
10	250	43	70	325	238	257	70	70	220	250
12	300	83	78	370	255	265	76	90	320	300
14	350	91	81	415	275	300				
16	400	118	102	475	355	375				
18	450	147	115	534	380	408				
20	500	171	120	593	410	441	115	95	420	400
22	550	190	154	642	435	475				
24	600	208	154	675	460	490				

SIZE		중량	DIMENSION (mm)							
Inch	mm		L	ØD	H1	H2	H3	H4	R	ØW
1/2	50	4.5	43	96	77	100	65	50	160	120
2.5	65	5.2	46	116	90	110				
3	80	6.5	46	126	95	120				
4	100	7.5	52	150	110	140				
5	125	14	57	180	145	170	70	70	200	200
6	150	18	62	212	150	175				
8	200	29	61	264	210	225				

Ordering Guideline

Size	Series	Class	Body	Disc	Shaft	Packing	Seat Ring	Operator	Mode	Fail Action
X	XXX	XXX	XX	XX	XX	X	XXX	XX	XX	XX
↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
3"	950-Water	150	CS-Carbon steel	D1-Carbon steel	S1-410 SS	G-Graphite	LR1-Laminated 304 SS/Graphite	LV-Lever	DA-Double Acting	LP-Last Position
4"		951-Lug	300	S4-304 SS	D2-304 SS	S2-316 SS	T-PTFE	LR2-Laminated 316 SS/Graphite	GO-Graphic Operator	SR-Spring Acting
5"										
6"										
8"	952-Double Flange	600	S6-316 SS	D3-316 SS	S3-304 SS	R-RTFE	SR1-Solid 304 SS	PN-Pneumatic Actuator		FC-Fail Closed FO-Fail Open
10"										
12"			BX-Special Alloy	DX-Special Alloy	S4-630 SS (17-4PH)	N-Nitronic	SR2-Solid 316 SS	EL-Electric Actuator		
14"										
16"					S5-402 SS		SRX-Special Alloy	HY-Hydraulic Actuator		
18"										
20"					SX-Special Alloy					
24"										

Technical Data

SOLID SEAT TYPE SPECIFICATION



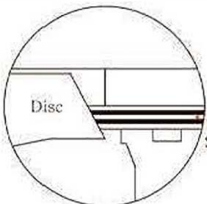
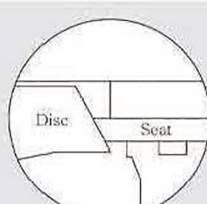
High temperature test Seat structure



Operation test after high temperature heating



High temperature test Triple offset seat structure Valve opening shape

Type	Seat Structure	Material	Temp erature Range	Characteristic
Laminate Seat		316L	-20℃~400℃	금속재실과 그래파이트가 적층구조로 되어 있음.
Solid Metal Seat		316L Inconel 625	-20℃~650℃	금속재실의 단일재질로 되어 있음. 고온 고압유속에 안정적임.

It is made of a single material of metal
Laminated structure of Metal & Graphite

mesys

Butterfly valves