



3 WAY MOTORIZED GLOBE VALVE-MIXING TYPE

RAPID CONTROLS

APPLICATION - Used for 2 position, or floating control of liquids for mixing service or in systems requiring that the flow be directed from either of two inlets to a common outlet.

CONSTRUCTION - 3 way motorized globe valve mixing type with Metal to metal seating/soft seating and spring loaded packing. Constant total flow throughout full plug travel. Linkage provides with strain relief mechanism assuring tightest possible close-off without putting excessive strain on the motor. Linkage has easy to read valve position indicator. Actuator positions valve stem.

SPECIFICATION

BODY & BONNET	: Cast iron
SEAT & PLUG	: Brass
SPINDLE	: S.S.304
GLAND PACKAGING	: Spring loaded PTFE rings with rubber seals
BODY TEST PRESSURE	: 21 Kg/cm ²
WORKING PRESSURE	: 7 Kg/cm ²
WORKING TYPE	: Mixing(2 inlet & 1 outlet)
VOLTAGE	: 24V AC/DC
CONTROL SIGNAL	: Modulating 0-10V DC
	: Modulating 4-20 mA
	: ON/OFF Type (NO,NC)
FEEDBACK	: 4-20M feedback (O)

(Works with 4-20mA control signal)

VALVE RATING

VALVE SIZE MM	CV	RECOMMENDED MAXIMUM PRESSURE DIFFERENTIAL	MAXIMUM TEMPERATURE OF FLUID	MAXIMUM PRESSURE OF FLUID	NOMINAL LIMITING FACTOR	
15	4.0	20 P.S.I.G.	115 °C	150 P.S.I.G. SCREWED	MAXIMUM PRESSURE DIFFERENTIAL	
20	6.3					
25	10.0					
32	16.0					
40	25.0					
50	40.0					
65	63.0			125 P.S.I.G. FLANGED		
80	100.0					
100	160.0					
125	250.0					
150	360.0					
200	600.0					



**RAPID CONTROLS PVT.LTD.**

B-47, Mayapuri, Indl. Area, Phase-1, New Delhi-64 (India)

Phone - 28117185, 28113873, 28115349, 45128360

E-mail : rapidcontrols@gmail.com, rapidcontrols47@gmail.com

Website : www.rapidcontrols.co.in

**TDS FOR 3 WAY MOTORIZED GLOBE VALVE-MIXING TYPE
FOR VALVE SIZE UPTO 50mm**

S.No.	DISCRIPTION	DETAILS
VALVE DETAILS		
1	MAKE	"RC"
2	BODY MATERIAL	CAST IRON IS:210 FG:260
3	BONNET MATERIAL	CAST IRON IS:210 FG:260
4	NO. OF PORT	3 CONNECTION PORTS, 2 INLET and 1 OUTLET
5	SPINDLE	S.S.304
6	PLUG	BRASS IS:1264, GRADE DCB-I
7	SEAT	BRASS IS:1264, GRADE DCB-I
8	GLAND PACKAGING	SPRING LOADED WITH PTFE RINGS AND RUBBER SEALS
9	GLAND NUT	BRASS IS:319
10	END CONNECTION	FEMALE SCREWED END CONNECTION
11	MEDIA TEMPRANGE RANGE	3°C to 80°C
12	WORKING PRESSURE	7 Kg cm ²
13	BODY TEST PRESSURE	21 kg cm ²
14	PAINTING	RED OXIDE COATED AND ENAMEL SPRAY PAINTED
15	VALVE WEIGHT	Connection size: - 15mm - 3 Kg Connection size: - 20mm - 3 Kg Connection size: - 25mm - 3.3 Kg Connection size: - 32mm - 3.5 Kg Connection size: - 40mm - 4.6 Kg Connection size: - 50mm - 6.7 Kg
ACTUATOR DETAILS		
16	BODY	ALUMINIUM (PRESSURE DIE CASTED)
17	TOP COVER	ABS
18	MOTOR	MICRO DC MOTOR
19	TYPE OF OPERATION	LINEAR MOTION
20	MOTOR PROTECTION	SOLID STATE INBUILT
21	OPERATING TEMPURATURE LIMIT	5°C to 80°C
22	STORAGE TEMPURATURE LIMIT	20°C to 50°C
23	NOISE RATING	UPTO 10 Db, WITHIN 1 METER DISTANCE
24	OPERATION TIME	45 SECONDS
25	MOUNTING	FIRM FIT WITH THERMAL BREAK
26	INPUT VOLTAGE	24V AC/DC, 50Hz
27	POWER CONSUMPTION	18 WATTS MAX
28	WIRING	SCREW TERMINALS



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29	STROKE	19mm or less
30	CLOSING FORCE	510 Nm
31	BREAK AWAY FORCE	510 Nm
32	CONTROL SIGNAL (not selectable type, conform at the time of order)	MODULATING 0-10V DC INPUT ANALOG SIGNAL MODULATING 4-20mA INPUT ANALOG SIGNAL ON/OFF TYPE, (COM,NO,NC/2 Position floating)
33	FEEDBACK	4-20mA analog control signal (Optional) Note:- work with 4-20mA input signal
34	FAIL SAFE	STAY PUT
35	MANUAL OVERRIDE	NO
36	CONFIGERABLE JUMPERS	FIELD CONFIGERABLES JUMPERS FOR FORWARD REVERSE/REVERSE ACTION.
37	DEGREE OF PROTECTION	IP 64
38	ACTUATOR WEIGHT	1.6 Kg

**TDS FOR 3 WAY MOTORIZED GLOBE VALVE-MIXING TYPE
FOR VALVE SIZE 65mm & 80mm**

S.No.	DISCRIPTION	DETAILS
	VALVE DETAILS	
1	MAKE	"RC"
2	BODY MATERIAL	CAST IRON IS:210 FG:260
3	BONNET MATERIAL	CAST IRON IS:210 FG:260
4	NO. OF PORT	3 CONNECTION PORTS, 2 INLET and 1 OUTLET
5	SPINDLE	S.S.304
6	PLUG	BRASS IS:1264, GRADE DCB-I
7	SEAT	BRASS IS:1264, GRADE DCB-I
8	GLAND PACKAGING	SPRING LOADED WITH PTFE RINGS AND RUBBER SEALS
9	GLAND NUT	BRASS IS:319
10	END CONNECTION	FLANGE END AS PER IS 6418 TABLE 5
11	TEMPRANGE RANGE LIMIT	3°C to 80°C
12	WORKING PRESSURE	7 Kg cm ²
13	BODY TEST PRESSURE	21 kg cm ²
14	PAINTING	RED OXIDE COATED AND ENAMEL SPRAY PAINTED
15		CONNECTION SIZE: - 65mm - 21 Kg
	VALVE WEIGHT	CONNECTION SIZE: - 80mm - 27 Kg
	ACTUATOR DETAILS	



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16	BODY	ALUMINIUM (PRESSURE DIE CASTED)
17	TOP COVER	ABS
18	MOTOR	MICRO DC MOTOR
19	TYPE OF OPERATION	LINEAR MOTION
20	MOTOR PROTECTION	SOLID STATE INBUILT
21	OPERATING TEMPERATURE LIMIT	5°C to 80°C
22	STORAGE TEMPERATURE LIMIT	20°C to 50°C
23	NOISE RATING	UPTO 12 Db, WITHIN 1 METER DISTANCE
24	OPERATION TIME	60 SECONDS
25	MOUNTING	FIRM FIT WITH THERMAL BREAK
26	INPUT VOLTAGE	24V AC/DC, 50Hz
27	POWER CONSUMPTION	25 WATTS MAX
28	WIRING	SCREW TERMINALS
29	STROKE	21mm or less
30	CLOSING FORCE	690 Nm
31	BREAK AWAY FORCE	690 Nm
32	CONTROL SIGNAL (not selectable type, conform at the time of order)	MODULATING 0-10V DC INPUT ANALOG SIGNAL MODULATING 4-20mA INPUT ANALOG SIGNAL ON/OFF TYPE, (COM,NO,NC/2 Position floating)
33	FEEDBACK	4-20mA analog control signal (Optional) Note:- work with 4-20mA input signal
34	FAIL SAFE	STAY PUT
35	MANUAL OVERRIDE	NO
36	CONFIGERABLE JUMPERS	FIELD CONFIGERABLES JUMPERS FOR FORWARD REVERSE/REVERSE ACTION.
37	DEGREE OF PROTECTION	IP 64
38	ACTUATOR WEIGHT	4.4 Kg

**TDS FOR 3 WAY MOTORIZED GLOBE VALVE-MIXING TYPE
FOR VALVE SIZE 100mm**

S.No.	DISCRIPTION	DETAILS
VALVE DETAILS		
1	MAKE	"RC"
2	BODY MATERIAL	CAST IRON IS:210 FG:260
3	BONNET MATERIAL	CAST IRON IS:210 FG:260
4	NO. OF PORT	3 CONNECTION PORTS, 2 INLET and 1 OUTLET
5	SPINDLE	S.S.304
6	PLUG	BRASS IS:319
7	SEAT	BRASS IS:1264, GRADE DCB-I



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8	GLAND PACKAGING	SPRING LOADED WITH PTFE RINGS AND RUBBER SEALS
9	GLAND NUT	BRASS IS:1264, GRADE DCB-I
10	END CONNECTION	FLANGE END AS PER IS 6418 TABLE 5
11	TEMPRANGE RANGE LIMIT	3°C to 80°C
12	WORKING PRESSURE	7 Kg cm ²
13	BODY TEST PRESSURE	21 kg cm ²
14	PAINTING	RED OXIDE COATED AND ENAMEL SPRAY PAINTED
15	VALVE WEIGHT	40 Kg
	ACTUATOR DETAILS	
16	BODY	ALUMINIUM (PRESSURE DIE CASTED)
17	TOP COVER	ABS
18	MOTOR	MICRO DC MOTOR
19	TYPE OF OPERATION	LINEAR MOTION
20	MOTOR PROTECTION	SOLID STATE INBUILT
21	OPERATING TEMPURATURE LIMIT	5°C to 80°C
22	STORAGE TEMPURATURE LIMIT	20°C to 50°C
23	NOISE RATING	UPTO 12 Db, WITHIN 1 METER DISTANCE
24	OPERATION TIME	80 SECONDS
25	MOUNTING	FIRM FIT WITH THERMAL BREAK
26	INPUT VOLTAGE	24V AC/DC, 50Hz
27	POWER CONSUMPTION	25 WATTS MAX
28	WIRING	SCREW TERMINALS
29	STROKE	28mm or less
30	CLOSING FORCE	690 Nm
31	BREAK AWAY FORCE	690 Nm
32	CONTROL SIGNAL (not selectable type, conform at the time of order)	MODULATING 0-10V DC INPUT ANALOG SIGNAL MODULATING 4-20mA INPUT ANALOG SIGNAL ON/OFF TYPE, (COM,NO,NC/2 Position floating)
33	FEEDBACK	4-20mA analog control signal (Optional) Note:- work with 4-20mA input signal
34	FAIL SAFE	STAY PUT
35	MANUAL OVERRIDE	NO
36	CONFIGERABLE JUMPERS	FIELD CONFIGERABLES JUMPERS FOR FORWARD REVERSE/REVERSE ACTION.
37	DEGREE OF PROTECTION	IP 64
38	ACTUATOR WEIGHT	4.9 Kg

**TDS FOR 3 WAY MOTORIZED GLOBE VALVE-MIXING TYPE
FOR VALVE SIZE 125mm**



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S.No.	DISCRIPTION	DETAILS
VALVE DETAILS		
1	MAKE	"RC"
2	BODY MATERIAL	CAST IRON IS:210 FG:260
3	BONNET MATERIAL	CAST IRON IS:210 FG:260
4	NO. OF PORT	3 CONNECTION PORTS, 2 INLET and 1 OUTLET
5	SPINDLE	S.S.304
6	PLUG	BRASS IS:1264, GRADE DCB-I
7	SEAT	BRASS IS:1264, GRADE DCB-I
8	GLAND PACKAGING	SPRING LOADED WITH PTFE RINGS AND RUBBER SEALS
9	GLAND NUT	BRASS IS:319
10	END CONNECTION	FLANGE END AS PER BS-10 TABLE-E
11	TEMPRANGE RANGE LIMIT	3°C to 80°C
12	WORKING PRESSURE	7 Kg cm ²
13	BODY TEST PRESSURE	21 kg cm ²
14	PAINTING	RED OXIDE COATED AND ENAMEL SPRAY PAINTED
15	VALVE WEIGHT	53 KG
ACTUATOR DETAILS		
16	BODY	ALUMINIUM (PRESSURE DIE CASTED)
17	TOP COVER	ABS
18	MOTOR	MICRO DC MOTOR
19	TYPE OF OPERATION	LINEAR MOTION
20	MOTOR PROTECTION	SOLID STATE INBUILT
21	OPERATING TEMPURATURE LIMIT	5°C to 80°C
22	STORAGE TEMPURATURE LIMIT	20°C to 50°C
23	NOISE RATING	UPTO 12 Db, WITHIN 1 METER DISTANCE
24	OPERATION TIME	120 SECONDS
25	MOUNTING	FIRM FIT WITH THERMAL BREAK
26	INPUT VOLTAGE	24V AC/DC, 50Hz
27	POWER CONSUMPTION	25 WATTS MAX
28	WIRING	SCREW TERMINALS
29	STROKE	35mm or less
30	CLOSING FORCE	780 Nm
31	BREAK AWAY FORCE	780 Nm
32	CONTROL SIGNAL (not selectable type, conform at the time of order)	MODULATING 0-10V DC INPUT ANALOG SIGNAL
		MODULATING 4-20mA INPUT ANALOG SIGNAL
		ON/OFF TYPE, (COM,NO,NC/2 Position floating)
33	FEEDBACK	4-20mA analog control signal (Optional) Note:- work with 4-20mA input signal



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34	FAIL SAFE	STAY PUT
35	MANUAL OVERRIDE	NO
36	CONFIGERABLE JUMPERS	FIELD CONFIGERABLES JUMPERS FOR FORWARD REVERSE/REVERSEACTION.
37	DEGREE OF PROTECTION	IP 64
38	ACTUATOR WEIGHT	5.5 Kg

**TDS FOR 3 WAY MOTORIZED GLOBE VALVE-MIXING TYPE
FOR VALVE SIZE 150mm**

S.No.	DISCRIPTION	DETAILS
VALVE DETAILS		
1	MAKE	"RC"
2	BODY MATERIAL	CAST IRON IS:210 FG:260
3	BONNET MATERIAL	CAST IRON IS:210 FG:260
4	NO. OF PORT	3 CONNECTION PORTS, 2 INLET and 1 OUTLET
5	SPINDLE	S.S.304
6	PLUG	BRASS IS:1264, GRADE DCB-I
7	SEAT	BRASS IS:1264, GRADE DCB-I
8	GLAND PACKAGING	SPRING LOADED WITH PTFE RINGS AND RUBBER SEALS
9	GLAND NUT	BRASS IS:319
10	END CONNECTION	FLANGE END AS PER BS-10 TABLE-E
11	TEMPRANGE RANGE LIMIT	3°C to 80°C
12	WORKING PRESSURE	7 Kg cm ²
13	BODY TEST PRESSURE	21 kg cm ²
14	PAINTING	RED OXIDE COATED AND ENAMEL SPRAY PAINTED
15	VALVE WEIGHT	88 KG
ACTUATOR DETAILS		
16	BODY	ALUMINIUM (PRESSURE DIE CASTED)
17	TOP COVER	ABS
18	MOTOR	MICRO DC MOTOR
19	TYPE OF OPERATION	LINEAR MOTION
20	MOTOR PROTECTION	SOLID STATE INBUILT
21	OPERATING TEMPURATURE LIMIT	5°C to 80°C
22	STORAGE TEMPURATURE LIMIT	20°C to 50°C
23	NOISE RATING	UPTO 12 Db, WITHIN 1 METER DISTANCE
24	OPERATION TIME	160 SECONDS
25	MOUNTING	FIRM FIT WITH THERMAL BREAK
26	INPUT VOLTAGE	24V AC/DC, 50Hz
27	POWER CONSUMPTION	25 WATTS MAX



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28	WIRING	SCREW TERMINALS
29	STROKE	42mm or less
30	CLOSING FORCE	780 Nm
31	BREAK AWAY FORCE	780 Nm
32	CONTROL SIGNAL (not selectable type, conform at the time of order)	MODULATING 0-10V DC INPUT ANALOG SIGNAL
		MODULATING 4-20mA INPUT ANALOG SIGNAL
		ON/OFF TYPE, (COM,NO,NC/2 Position floating)
33	FEEDBACK	4-20mA analog control signal (Optional) Note:- work with 4-20mA input signal
34	FAIL SAFE	STAY PUT
35	MANUAL OVERRIDE	NO
36	CONFIGERABLE JUMPERS	FIELD CONFIGERABLES JUMPERS FOR FORWARD REVERSE/REVERSE ACTION.
37	DEGREE OF PROTECTION	IP 64
38	ACTUATOR WEIGHT	5.7 Kg

**TDS FOR 3 WAY MOTORIZED GLOBE VALVE-MIXING TYPE
FOR VALVE SIZE 200mm**

S.No.	DISCRIPTION	DETAILS
	VALVE DETAILS	
1	MAKE	"RC"
2	BODY MATERIAL	CAST IRON IS:210 FG:260
3	BONNET MATERIAL	CAST IRON IS:210 FG:260
4	NO. OF PORT	3 CONNECTION PORTS, 2 INLET and 1 OUTLET
5	SPINDLE	S.S.304
6	PLUG	BRASS IS:1264, GRADE DCB-I
7	SEAT	BRASS IS:1264, GRADE DCB-I
8	GLAND PACKAGING	SPRING LOADED WITH PTFE RINGS AND RUBBER SEALS
9	GLAND NUT	BRASS IS:319
10	END CONNECTION	FLANGE END AS PER BS-10 TABLE-E
11	TEMPRANGE RANGE LIMIT	3°C to 80°C
12	WORKING PRESSURE	7 Kg cm ²
13	BODY TEST PRESSURE	21 kg cm ²
14	PAINTING	RED OXIDE COATED AND ENAMEL SPRAY PAINTED
15	VALVE WEIGHT	140 KG approx
	ACTUATOR DETAILS	
16	BODY	ALUMINIUM (PRESSURE DIE CASTED)
17	TOP COVER	ABS
18	MOTOR	MICRO DC MOTOR
19	TYPE OF OPERATION	LINEAR MOTION



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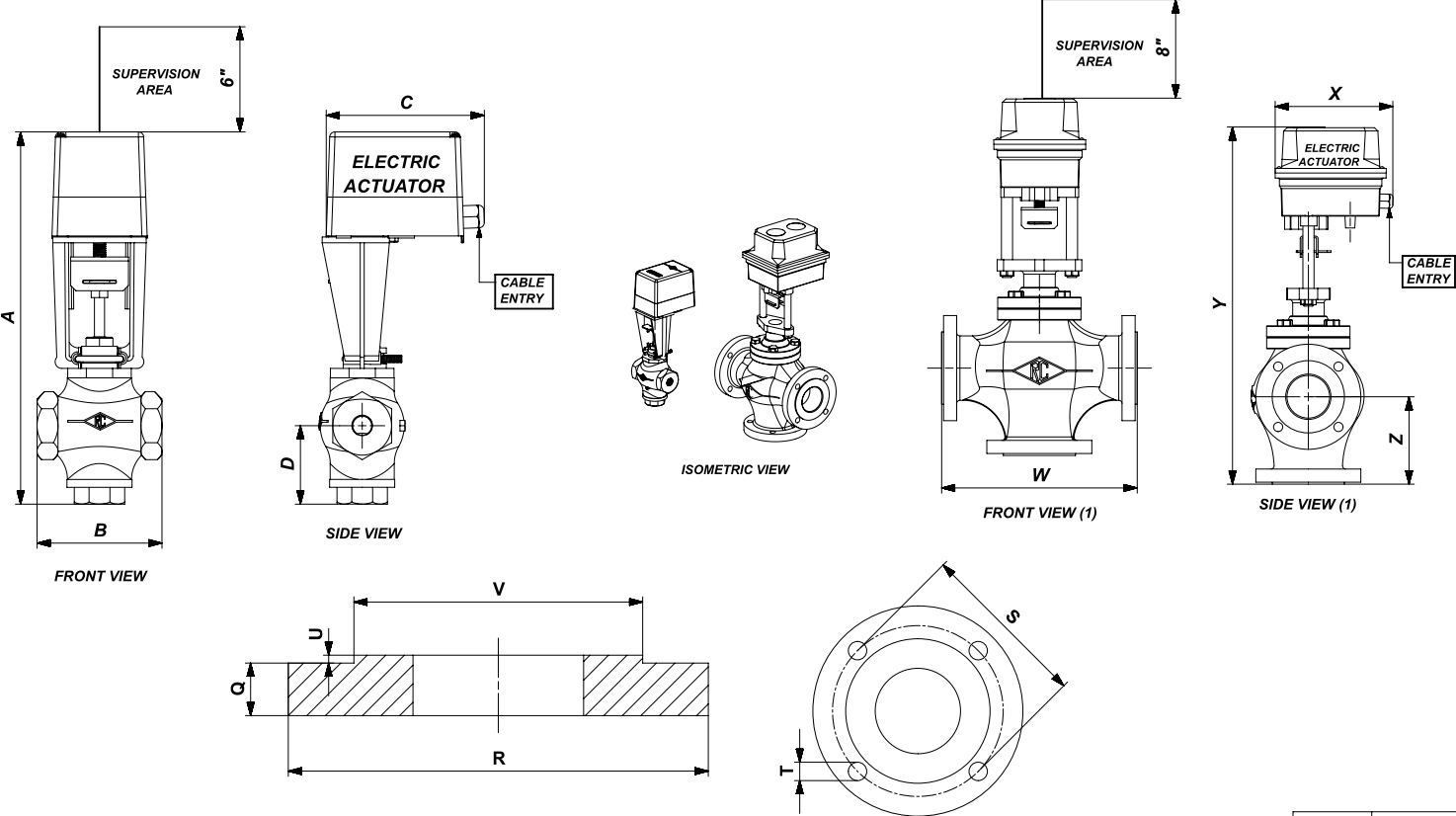
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20	MOTOR PROTECTION	SOLID STATE INBUILT
21	OPERATING TEMPURATURE LIMIT	5°C to 80°C
22	STORAGE TEMPURATURE LIMIT	20°C to 50°C
23	NOISE RATING	UPTO 12 Db, WITHIN 1 METER DISTANCE
24	OPERATION TIME	300 SECONDS approx..
25	MOUNTING	FIRM FIT WITH THERMAL BREAK
26	INPUT VOLTAGE	24V AC/DC, 50Hz
27	POWER CONSUMPTION	25 WATTS MAX
28	WIRING	SCREW TERMINALS
29	STROKE	70mm or less
30	CLOSING FORCE	980 Nm
31	BREAK AWAY FORCE	980 Nm
32	CONTROL SIGNAL (not selectable type, conform at the time of order)	MODULATING 0-10V DC INPUT ANALOG SIGNAL
		MODULATING 4-20mA INPUT ANALOG SIGNAL
		ON/OFF TYPE, (COM,NO,NC/2 Position floating)
33	FEEDBACK	4-20mA analog control signal (Optional) Note:- work with 4-20mA input signal
34	FAIL SAFE	STAY PUT
35	MANUAL OVERRIDE	NO
36	CONFIGERABLE JUMPERS	FIELD CONFIGERABLES JUMPERS FOR FORWARD REVERSE/REVERSE ACTION.
37	DEGREE OF PROTECTION	IP 64
38	ACTUATOR WEIGHT	10 Kg



GA DRAWING OF RC MAKE
3 WAY MOTORIZED GLOBE VALVE MIXING TYPE



FOR SIZE UPTO :- 50MM				
SIZE	A	B	C	D
20MM	361MM	116MM	162MM	81MM
25MM	361MM	116MM	162MM	81MM
32MM	362MM	116MM	162MM	85MM
40MM	379MM	130MM	162MM	91MM
50MM	388MM	153MM	162MM	94MM

FLANGE AND DRILLING DETAILS (FOR SIZE 65MM TO 150MM)							
VALVE SIZE	Q	R	NO.OF HOLES	S	T	U	V
65MM	20	160	04	130	14	03	110
80MM	21	180	04	150	18	03	120
100MM	22	210	04	170	18	03	148
125MM	30	254	08	210	17		
150MM	NA	NA	NA	NA	NA	NA	NA

FOR SIZE 65MM TO 150MM				
SIZE	W	X	Y	Z
65MM	224MM	180MM	541MM	133MM
80MM	240MM	180MM	558MM	140MM
100MM	282MM	180MM	603MM	153MM
125MM	305MM	180MM	664MM	187MM
150MM	NA	NA	NA	NA

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