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Control Valves

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Control Valve

TECHNICAL INSIGHTS

1. Overview

Control Globe Valve is a precision-engineered valve designed to accurately regulate flow, pressure, and temperature in demanding process applications. Its linear motion mechanism and specially profiled control plug provide stable throttling performance, ensuring precise process control with minimal leakage and long service life.

2. Key Features

- **Excellent Flow Control:** Designed for accurate modulation across a wide operating range.
- **High Rangeability:** Maintains stable control from low to high flow conditions.
- **Interchangeable Flow Characteristics:** Available with Linear, Equal Percentage, and Quick Opening trim to suit different process requirements.
- **Reliable Shut-Off Performance:** Precision-guided plug and seat ensure dependable sealing and reduced leakage.

3. Benefits

- **Accurate Process Control:** Maintains stable flow, pressure, and temperature for improved system efficiency.
- **Enhanced Energy Efficiency:** Optimized throttling reduces energy losses and improves plant performance.
- **Reduced Process Fluctuations:** Smooth valve response minimizes pressure variations and improves control stability.
- **Long Service Life:** Durable trim materials withstand continuous throttling and demanding operating conditions.

4. Applications

- Steam Distribution & Process Control
- Power Generation
- Oil & Gas Processing
- Water Treatment & Distribution
- Food & Beverage Utilities
- Pharmaceutical Utilities

5. Certification

Certified under IBR Standards.

Control Valve (UV-300 , UV-303)

Product Code	Design	End Connections	Size Range	Pressure Rating
UV-300	"Qucick OpeningLinearParabolic"	Flanged	"DN25 to Dn300 [1"" to 12""]"	#150
UV-303	"Qucick OpeningLinearParabolic"	Flanged	"DN25 to Dn300 [1"" to 12""]"	#300
UV-300-6	"Qucick OpeningLinearParabolic"	Flanged	"DN25 to Dn300 [1"" to 12""]"	#600
Note:- The special requirements will be indicated at the offfer and the perform invoice, together with other supporting documents, Offering options are supported with additional technical Documents.				

Sr. No.	Part Name	UV-300/ UV-303
1	Body	ASTM A216 Gr. WCB
2	Seat Ring	ASTM A217 Gr. Ca15
3	Seat	ASTM A276 T410 / ASTM A217 Ca15
4	Check Nut	ASTM A276 T410
5	Stem	ASTM A276 T410
6	Bonnet	ASTM A216 Gr. WCB
7	Gland Packing	Flexible Graphite
8	Bonnet Nut	ASTM A276 T410
9	Gland	ASTM A276 T410
10	Actuator	
11	Fastners	ASTM A194 Gr. 2H / ASTM A193 Gr. B7
12	Gasket	SS-316 + Graphite
13	Positioner	
14	AFR	
15	Instrumention Tubing	SS-316
Note:- Other material can be supplied on the customer requests.		



Control Valve (UV-300 , UV-303)

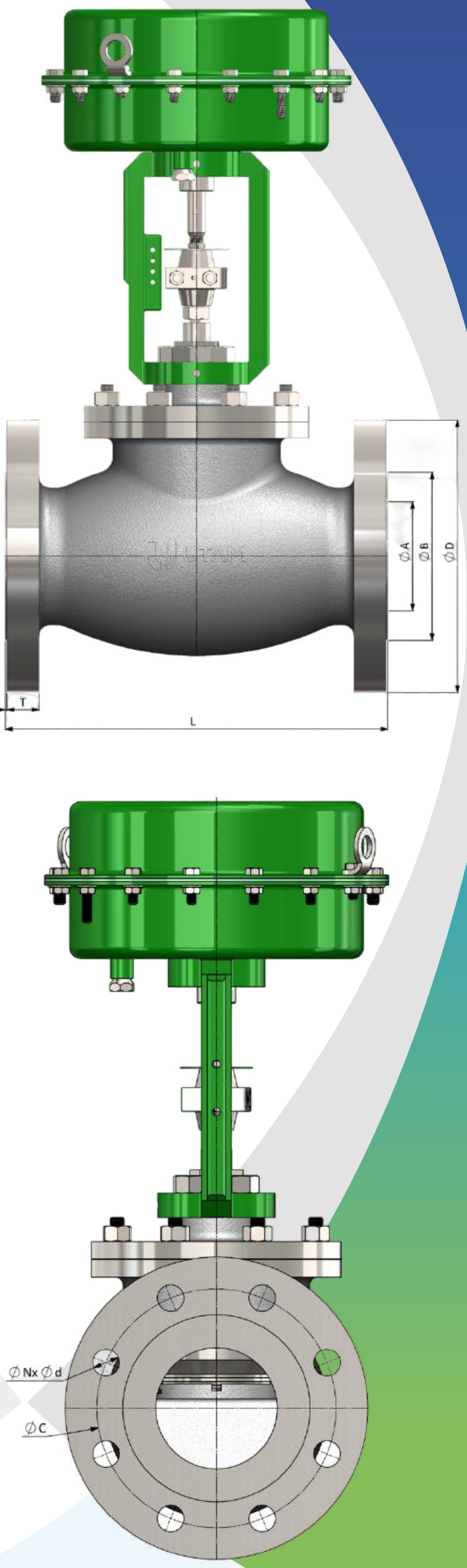
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VALVE MEASUREMENTS

ASME B16.5 #150								
SIZE	ØA	ØB	ØC	ØD	T	RF	NxØd	L
DN25	25.4	50.8	79.2	108	9.7	1.5	4x5/8"	127
DN40	40	73	98.6	127	12.7		4x5/8"	165
DN50	50.8	91.9	120.6	152	14.2		4x3/4"	203
DN65	65	104.6	139.7	178	15.7		4x3/4"	216
DN80	76.2	127	152.4	190	17.5		4x3/4"	241
DN100	101.6	157.2	190.5	229	22.4		8x3/4"	292
DN125	127	185.7	215.9	254	22.5		8x7/8"	356
DN150	152.4	215.9	241.3	279	23.9		8x7/8"	406
DN200	203.2	269.7	298.4	343	26.9		8x7/8"	495
DN250	254	323.8	362	406	28.4		12x1"	622
DN300	304.8	381	431.8	483	30.2		12x1"	698

ASME B16.5 #300								
SIZE	ØA	ØB	ØC	ØD	T	RF	NxØd	L
DN25	25.4	50.8	88.9	124	15.7	1.5	4x3/4"	203
DN40	40	73	114.3	155	19		4x7/8"	229
DN50	50.8	91.9	127	165	20.6		8x3/4"	267
DN65	65	104.6	149.4	190	23.9		8x7/8"	292
DN80	76.2	127	168.1	210	26.9		8x7/8"	318
DN100	101.6	157.2	200.2	254	30.2		8x7/8"	356
DN125	127	185.7	235	279	33.3		8x7/8"	400
DN150	152.4	215.9	269.7	318	35.1		12x7/8"	444
DN200	203.2	269.7	330.2	381	39.6		12x1"	559
DN250	254	323.8	387.4	444	46		16x1-1/8"	622
DN300	304.8	381	450.8	521	49.3		16x1-1/4"	711

ASME B16.5 #600								
SIZE	ØA	ØB	ØC	ØD	T	RF	NxØd	L
DN25	25.4	50.8	88.9	124	17.5	6.4	4x3/4"	216
DN40	40	73	114.3	155	22.4		4x7/8"	241
DN50	50.8	91.9	127	165	25.4		8x3/4"	292
DN65	65	104.6	149.4	190	28.4		8x7/8"	330
DN80	76.2	127	168.1	210	31.8		8x7/8"	356
DN100	101.6	157.2	215.9	273	38.1		8x1"	432
DN125	127	185.7	266.7	330	44.4		8x1-1/8"	508
DN150	152.4	215.9	292.1	356	47.8		12x1-1/8"	559
DN200	199.9	269.7	349.2	419	55.6		12x1-1/4"	660
DN250	247.7	323.8	431.8	508	63.5		16x1-3/8"	787
DN300	298.5	381	489	559	66.5		20x1-3/8"	838



Control Valve (UV-350 , UV-353)

Product Code	Design	End Connections	Size Range	Pressure Rating
UV-350	3-Way Mixing	Flanged	DN25–DN300 (1"–12")	150
UV-353	3-Way Diverting	Flanged	DN25–DN300 (1"–12")	300
UV-350-6	3-Way Mixing	Flanged	DN25–DN300 (1"–12")	600
Note:- The special requirements will be indicated at the offfer and the perform invoice, together with other supporting documents, Offering options are supported with additional technical Documents.				

Sr. No.	Part Name	UV-350/ UV-353
1	Body	ASTM A216 Gr. WCB
2	Bonnet	ASTM A216 Gr. WCB
3	Seat Ring	ASTM A217 Ca15
4	Plug	ASTM A276 Type 410 / Ca15
5	Stem	ASTM A276 Type 410
6	Gland Packing	Flexible Graphite
7	Gasket	ASTM A193 B7 / ASTM A194 2H
8	Fasteners	ASTM A276 T410
9	Instrument Tubing	Ss316
Note:- Other material can be supplied on the customer requests.		



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GLOBAL PRESENCE

Get a detailed snapshot of our global footprint and how we are helping the cause of industries and our clients, worldwide.



Elevating Efficiency Through,
Advanced Engineering & Precision Valves

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