

HIGH PERFORMANCE CONTROL VALVES





ISO 9001:2015 Certified • API 6A, 602, 6D Monogram & IBR Certified • State of the art Infrastructure & Technology



NU-TECH HIGH PERFORMANCE CONTROL VALVES

ABOUT NU-TECH GROUP

With a vision of becoming the leading Industrial & Automation Valve manufacturing and supplying company Nu-tech Controls established in 1995. We would like to introduce our selves as one of the leading Industrial & Automation Valves like **Ball Valve, Gate Valve, Globe Valve, Check Valve, Automatic Control Valves, Pressure Reducing Valves, Safety Relief Valves, Pressure Reducing Stations, Pneumatic Control Valves & High Pressure Valves** manufacturer based in the city of Ahmedabad. Our products are precision made widely used in Oil, Gas, Petrochemicals, Power, Fertiliser & Allied Industry worldwide. We are in exports of our precise products around the globe and have a network and promoters with enthusiastic response and rapid market growth. Our installed testing facility is having the capacity of 50,000 PSI of hydraulic pressure and 10,000 PSI of pneumatic pressure. Quality and tailor made valve is our strength.

"Globally Preferred Supplier of Valves"

Nu-tech controls is our bigger facility specifically focusing on manufacturing of valves with a mandate to become a world class manufacturer of Automation & Industrial valves to meet the high standards of the Oil and Gas, Chemical and Refined Petroleum & related markets.



AUTOMATION VALVES

- ▶ AUTOMATIC CONTROL VALVES
- ▶ PRESSURE REGULATING VALVES
- ▶ PRESSURE REDUCING VALVES
- ▶ PRESSURE REDUCING STATIONS
- ▶ SAFETY RELIEF VALVE
- ▶ CHOCK VALVES
- ▶ CONTROL VALVES



INDUSTRIAL VALVES

- ▶ BALL VALVES
(METAL TO METAL/FIRE SAFE/HIGH & LOW PRESSURE)
- ▶ GATE VALVES
- ▶ GLOBE VALVES
- ▶ CHECK VALVES
- ▶ BUTTERFLY VALVES
- ▶ STRAINER
(Y TYPE, T TYPE & BUCKET TYPE)



PRESSURE VESSELS AND EQUIPMENTS, SKIDS

The Classic Series 1000 valve developed by Nu-Tech Control will in its basic form satisfy the majority of general applications to be found throughout the process and power industries. The construction of this range of valves is of a simple form but it has a design which in itself allows specialized applications.

Performance Feature

- High flow capacity
- Tight shut-off
- Excellent flow control rangeability
- Cast globe type body proportioned to withstand high pipe stressed without distorts

Design Flexibility

- Inherently characterized trims offered in equal percentage, Linear and quick opening.
- All trim components removable from the top for ease of maintenance
- Multi trim sizes available.
- Full range of body and trim material options.
- Full rationalized and interchangeable feature
- Full range of bonnet and packing designs to suit various.
- Temperatures and fluids

Design Integrity

- Heavy duty top guiding with no bottom guide to obstruct seat bore and potentially trap debris.
- Large diameter stems.
- Generously proportioned seat ring screwed into body to ensure a leak proof joint with optional seal welded seat available.

Technical Data

- **Valve Sizes** : 1/2" to 12" (15mm to 300mm) nominal bore.
- **End Connection Styles** : Flanged End (RF, RJ & TG) all sizes. Butt Weld End all sizes. Socket Weld End up to size 2". Screwed End up to size 2".
- **Rating** : ANSI 150 to 2500 or Equivalents to BS, DIN, etc.
- **Design Standards** : ANSI B16.34.
- **Trim Design Options** : Contoured and Microspline as standard.
- Ported cage (Balance/unbalance), Multi- Hole Cage
- **Flow Characteristics** : Standard Trim- Linear, Equal percentage, on-off. Other characteristics on request. Cascade Trim - Modified Linear.
- **Valve Body MOC** : Carbon Steel ASTM A216 WCB, ASTM A217 WC6, WC9. Stainless Steel ASTM A351-CF8, CF8M, CF3, CF3M. Alloy Steel Hast 'C' & Alloy 20, Nickel, Titanium, Monel etc. Other materials against specific requirements.
- **Bonnet Options** : Standard, Normalizing, Finned, Bellows Seal and Cryogenic bonnet design options available.
- **Actuator** : Spring opposed Pneumatic Diaphragm (field reversible Direct/Reverse Action). pneumatic Cylinder & Electrical.
- **Diaphragm** : Nitrile / Neoprene
- **Spring Range** : 3 – 15 PSIG (0.2 – 1.0 Kg/cm²) 6 – 30 PSIG (0.4 – 2.0 Kg/cm²)
- **Air Supply** : 20 – 35 PSIG (1.4 – 2.5 Kg/cm²)
- **AIR Connection** : 1/ 4" or 1/ 2" NPT.
- **Hand wheel** : Top or Side Mounted Hand wheel.
- **ACCESSORIES** : Valve Positioner - Pneumatic , Electro Pneumatic, OPTIONAL Smart Positioner, Airset, Solenoid Valve, Air Lock, Volume Booster, I/P Converter, Position Transmitter, Limit – Proximity Switches etc. Removable Blind Head, Steam Jacketing, etc

Types of Bonnet & Selection

Standard Bonnet

Standard bonnets are suitable for applications for Temperatures ranging from 0 C to +250 C depending on the gland packing selection

Normalizing (Finned) Bonnets

Normalizing (finned) Bonnets are used for high temperature service applications ranging from +250 C to +1000 C. These bonnets are provided with 'Graphite gland packing's'

Extended Plain

Extended plain bonnets are used for service temperature -100 C to 0 C. Depending upon the gland packing & bonnet material used, These bonnets protect the gland packing from excessive cold, which may affect the performance of the gland packing's.

Cryogenic Bonnets

The Construction of the bonnet Permits minimum heat transfer. The bonnet material used generally is SS 304 or SS316. The design protects the packing from extremely low service temperature (-100 C to -198 C).

Bellows Seal Bonnets

This type of bonnet utilizes a bellows assembly for sealing against leakage around the valve plug stem. Bellows sealed bonnets are used on those applications where no leakage along the valve stem is allowed. Usual applications include those installations where process fluid is flammable, toxic, explosive or highly expensive. Bellows material is SS 321 and is suitable for pressure up to 45 Kg/cm at maximum temperature of 450 C.

Gland Packing Selection & Temp Limits

- PTFE (V Ring) Temp limit shall be -250 C to + 200 C • Grafoil temp Limit shall be +200 C to +600 c.

Contoured Trim

The contoured trim design presents a symmetrical smooth profile being suitable for modulating or on/off applications satisfying a large percentage of process control requirements.

Trim Design Options :

Contoured trim - full and reduced capacities/Ported cage

Plug Options :

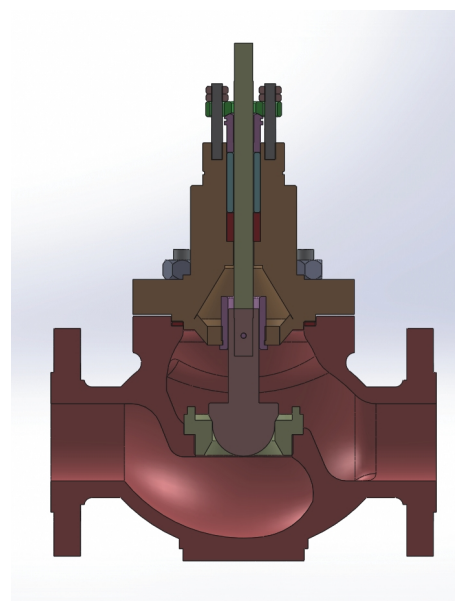
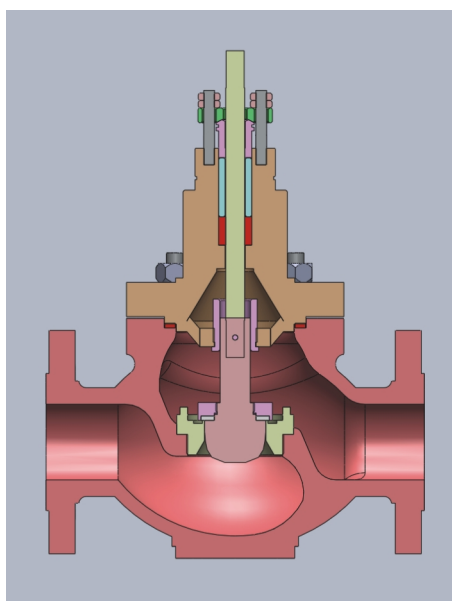
Unbalance with Metal to metal or resilient seating face & Balanced plug with PTFE /Grafoil Lipseal.

Characteristics available :

Equal percentage, Linear or Quick opening.

Direction of Flow :

Valves operating on modulating duty are flowed under the plug or over the plug depend upon fluid application. Valves operating on an on/off duty can be flowed in either direction.



Microspline Trim

The microspline trim design is a seat guided construction having a very high range ability and for accurate control of minute flow rates.

Trim Design Options :

Microspline trim - multiple trim sizes

Characteristics Available :

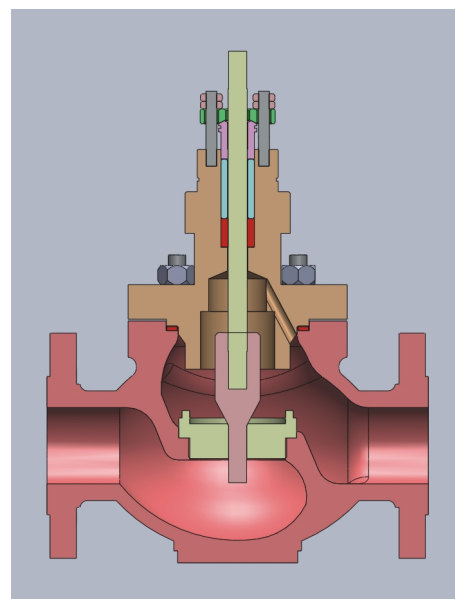
Modified equal percentage

Plug Options :

Metal to metal or resilient sealing faces.

Direction of Flow :

Flow over the plug



Server Duty Multi Hole Cage Guided Balanced/unbalanced Trim

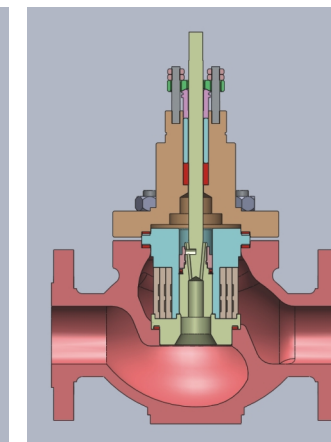
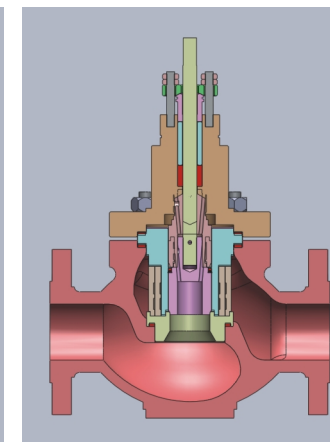
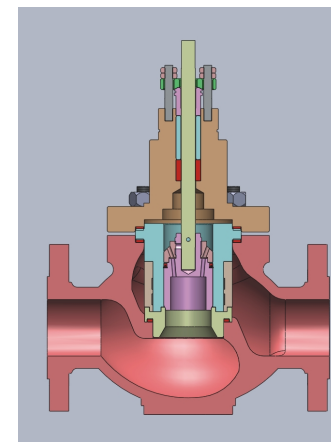
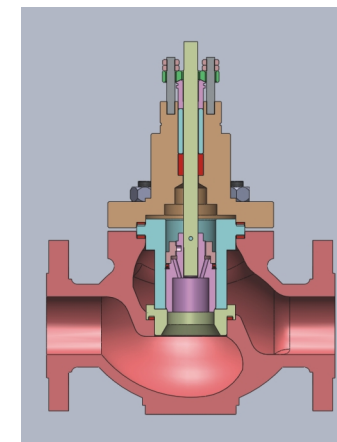
Multi hole cage Guided trim has been developed for high pressure drop application to prevent the onset of cavitations & reduce the noise level generated as a result of both liquid & gas/vapour flow.

Trim Design Options :

Multi Hole Low noise & anti cavitation Trim series- L1,L2,L3,L4

Plug Options :

Unbalanced with metal to metal or resilient seating face & balanced plug with Lip seal.(PTFE/GRAFOIL)



TRIM SIZE	STANDARD RANGE ABILITY	
	CONTOURED	MULTI HOLE CAGE
0.5" to 0.75"	40:1	35:1
1" to 3"	55:1	50:1
4" to 16"	70:1	70:1
Microsplines	Up to 150:1	

Maximum Leakage Rates

Leakage rates are normally measured in accordance with the ANSI/FCI70.2 specification using the class designation

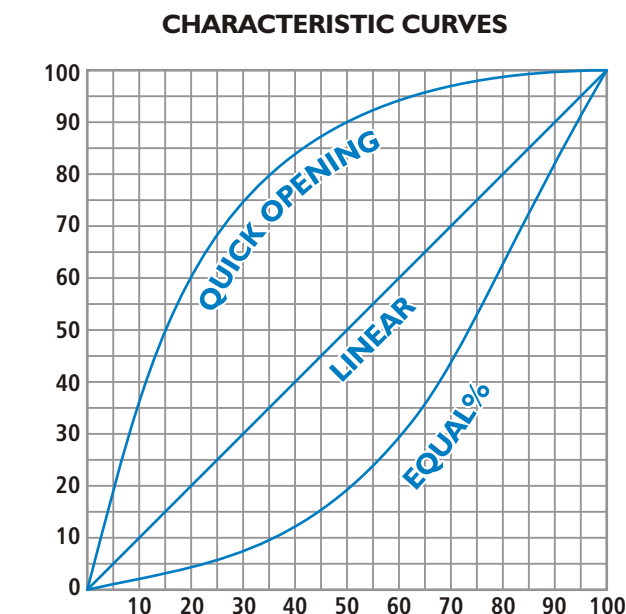
Inherent Range ability

The inherent range ability of a control valve is the ratio between maximum and minimum flow within the working characteristic at constant pressure drop.

The Inherent Flow Characteristic

The Inherent flow characteristic of a control valve is the relationship between the flow and the lift of the plug at constant pressure drop. The characteristic normally available are shown as below.

- **LINEAR** : Flow is directly proportional to valve lift.
- **EQUAL%** : Flow change by a constant percentage of its instantaneous value for each unit of valve lift.
- **QUICK OPENING** : Flow increases rapidly with initial travel reaching near its maximum at a low lift



Valve Sizing Co-efficient Cv Rating - 150# to 2500#

VALVE SIZE		TRIM SIZE		LOW NOISE TRIM (GAS)											
INS	MM	INS	MM	MHC1			MHC2			MHC3			MHC4		
				ANSI 150 TO 600	ANSI 900 TO 1500	ANSI 2500	ANSI 150 TO 600	ANSI 900 TO 1500	ANSI 2500	ANSI 150 TO 600	ANSI 900 TO 1500	ANSI 2500	ANSI 150 TO 600	ANSI 900 TO 1500	ANSI 2500
1.1/2	40	1.1/2	40	28	26	-	-	-	-	-	-	-	-	-	-
		1.1/4	32	20	18	18	16	16	15	-	-	-	-	-	-
		3/4	19	8	8	8	8	8	7	6	6	6	-	-	-
		1/2	15	5	5	5	5	5	4	3	3	3	-	-	-
2	50	2	50	42	40	-	-	-	-	-	-	-	-	-	-
		1.1/2	40	28	26	26	23	23	22	-	-	-	-	-	-
		1.1/4	32	20	18	18	16	16	15	16	15	16	-	-	-
		3/4	19	8	8	8	8	8	7	6	6	6	6	6	6
3	80	3	80	88	83	-	-	-	-	-	-	-	-	-	-
		2.1/2	65	65	58	58	55	55	50	-	-	-	-	-	-
		2	50	42	40	40	40	40	38	36	36	36	-	-	-
		1.1/2	40	28	26	26	26	26	26	26	26	26	26	26	26
		1.1/4	32	20	18	18	20	18	18	18	18	18	18	18	18
4	100	1	25	15	13	13	15	13	13	10	10	10	10	10	10
		4	100	140	132	-	-	-	-	-	-	-	-	-	-
		3	80	100	95	70	66	66	65	-	-	-	-	-	-
		2.1/2	65	65	65	58	55	55	50	52	52	50	-	-	-
		2	50	42	42	40	40	40	38	36	36	36	36	36	36
6	150	1.1/2	40	28	28	26	28	26	26	26	26	26	26	26	16
		1.1/4	32	20	20	18	20	18	18	18	18	18	18	18	18
		6	150	310	290	-	-	-	-	-	-	-	-	-	-
		5	125	240	230	210	160	160	150	-	-	-	-	-	-
		4	100	170	170	170	120	120	120	120	120	120	-	-	-
8	200	3	80	125	125	125	80	80	80	80	80	80	80	80	80
		2.1/2	65	100	100	90	60	60	60	60	60	60	60	60	60
		2	50	70	65	65	45	45	45	45	45	45	45	45	45
		8	200	450	425	-	-	-	-	-	-	-	-	-	-
		6	150	310	290	290	220	215	210	-	-	-	-	-	-
10	250	5	125	240	230	210	160	160	260	150	150	150	-	-	-
		4	100	170	170	170	120	120	120	120	120	120	120	120	120
		3	80	125	125	125	80	80	80	80	80	80	80	80	80
		2.1/2	65	100	100	90	60	60	60	60	60	60	60	60	60
		10	250	850	790	-	-	-	-	-	-	-	-	-	-
12	300	8	200	660	630	-	450	440	-	-	-	-	-	-	-
		6	150	470	450	-	320	320	-	300	300	-	-	-	-
		5	125	330	325	-	220	220	-	220	220	-	220	220	-
		4	100	240	240	-	160	160	-	160	160	-	160	161	-
		3	80	170	150	-	120	120	-	120	120	-	120	120	-
14	350	12	300	1060	990	-	-	-	-	-	-	-	-	-	-
		10	250	850	790	-	590	-	-	-	-	-	-	-	-
		8	200	660	630	-	450	-	-	400	-	-	-	-	-
		6	150	470	450	-	320	-	-	300	-	-	300	300	-
		5	125	330	290	-	220	-	-	220	-	-	220	220	-
16	400	4	100	240	230	-	160	-	-	160	-	-	160	160	-
		14	350	1390	-	-	-	-	-	-	-	-	-	-	-
		12	300	1060	-	-	780	-	-	-	-	-	-	-	-
		10	250	850	-	-	590	-	-	590	-	-	-	-	-
		8	200	660	-	-	450	-	-	420	-	-	420	-	-
18	450	6	150	470	-	-	320	-	-	320	-	-	320	-	-
		5	125	330	-	-	220	-	-	220	-	-	220	-	-
		16	400	1680	-	-	-	-	-	-	-	-	-	-	-
		14	350	1390	-	-	930	-	-	-	-	-	-	-	-
		12	300	1060	-	-	780	-	-	710	-	-	-	-	-
18	450	10	250	850	-	-	590	-	-	590	-	-	590	-	-
		8	200	660	-	-	450	-	-	450	-	-	450	-	-
		6	150	470	-	-	320	-	-	320	-	-	320	-	-
		4	100	240	230	-	160	-	-	160	-	-	160	160	-
		18	450	2200	-	-	-	-	-	-	-	-	-	-	-
18	450	16	400	1680	-	-	1300	-	-	-	-	-	-	-	-
		14	350	1390	-	-	930	-	-	1010	-	-	-	-	-
		12	300	1060	-	-	780	-	-	870	-	-	-	-	-
		10	250	850	-	-	590	-	-	710	-	-	590	-	-

Valve Sizing Co-efficient Cv Rating - 150# to 2500#

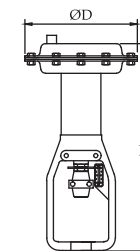
VALVE SIZE	TRIM SIZE	CONTOURED & V-PORT TRIM		LOW NOISE TRIM (LIQUID)												
				LN1			LN2			LN3			LN4			
INS	INS	EQUAL % & LINEAR	QUICK OPENING (ON-OFF)	ANSI 150 TO 600	ANSI 900 TO 1500	ANSI 2500	ANSI 150 TO 600	ANSI 900 TO 1500	ANSI 2500	ANSI 150 TO 600	ANSI 900 TO 1500	ANSI 2500	ANSI 150 TO 600	ANSI 900 TO 1500	ANSI 2500	
1.1/2	40	1.1/2	30	35	28	26	-	-	-	-	-	-	-	-	-	-
		1.1/4	30	20	20	18	18	16	15	14	-	-	-	-	-	-
		1	13	13	-	-	-	-	-	-	-	-	-	-	-	-
		3/4	8	8	8	8	8	8	6	6	5	5	5	-	-	-
2	50	1/2	5	5	5	5	5	3	3	3	3	3	-	-	-	
		2	50	55	42	40	-	-	-	-	-	-	-	-	-	
		1.1/2	30	35	28	26	26	22	22	20	-	-	-	-	-	-
		1.1/4	20	20	20	18	18	17	17	16	15	15	15	-	-	-
3	80	1	13	13	-	-	-	-	-	-	-	-	-	-	-	-
		3/4	8	8	8	8	8	8	7	5	5	5	5	5	5	5
		3	118	125	88	83	-	-	-	-	-	-	-	-	-	-
		2.1/2	90	95	65	58	58	50	50	47	-	-	-	-	-	-
4	100	2	50	55	42	40	40	38	38	36	33	33	33	-	-	-
		1.1/2	30	35	28	26	26	28	26	26	25	25	24	22	22	22
		1.1/4	20	20	20	18	18	20	18	18	18	18	18	15	15	15
		1	13	13	15	13	13	13	13	13	12	12	12	8	8	8
6	150	4	220	225	140	132	-	-	-	-	-	-	-	-	-	-
		3	118	125	100	95	70	61	60	58	-	-	-	-	-	-
		2.1/2	90	95	65	58	58	50	50	47	45	44	43	-	-	-
		2	50	55	42	40	40	39	38	36	33	33	32	30	30	30
8	200	1.1/2	30	35	28	26	26	28	26	26	25	25	24	22	22	22
		1.1/4	20	20	20	18	18	20	18	18	18	18	18	15	15	15
		6	450	470	310	290	-	-	-	-	-	-	-	-	-	-
		5	320	335	240	230	210	150	150	140	-	-	-	-	-	-
10	250	4	220	225	170	170	170	110	110	110	105	105	100	-	-	-
		3	118	125	125	125	125	80	80	80	75	75	72	65	65	95
		2.1/2	90	95	100	100	90	55	55	50	45	45	43	42	42	65
		2	50	55	70	65	65	39	39	38	33	33	32	30	30	42
12	300	8	625	700	450	425	-	-	-	-	-	-	-	-	-	-
		6	450	470	310	290	290	200	200	190	-	-	-	-	-	-
		5	320	335	240	230	210	150	150	145	125	125	125	-	-	-
		4	220	225	170	170	170	110	110	110	105	105	105	95	95	-
14	350	3	118	125	125	125	125	80	80	80	75	75	72	65	65	-
		2.1/2	90	95	100	100	90	55	55	50	45	45	43	42	42	-
		10	925	930	850	790	-	-	-	-	-	-	-	-	-	-
		8	625	550	660	630	-	410	410	-	-	-	-	-	-	-
16	400	6	450	470	470	450	-	300	300	-	250	250	-	-	-	-
		5	320	335	330	325	-	200	200	-	180	180	-	160	160	-
		4	220	225	240	240	-	150	150	-	130	130	-	120	120	-
		3	118	125	170	150	-	110	110	-	105	105	-	90	90	-
18	450	12	1350	1420	1060	990	-	-	-	-	-	-	-	-	-	-
		10	925	990	850	790	-	560	-	-	-	-	-	-	-	-
		8	625	700	660	630	-	410	-	-	350	-	-	-	-	-
		6	450	470	470	450	-	300	-	-	250	-	-	220	220	-
18	450	5	320	335	330	290	-	200	-	-	180	-	-	160	160	-
		4	220	225	240	230	-	150	-	-	130	-	-	120	120	-
		14	1900	2250	1390	-	-	-	-	-	-	-	-	-	-	-
		12	1350	1420	1060	-	-	720	-	-	-	-	-	-	-	-
18	450	10	925	930	85											

Actuator Selection Guide

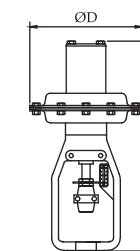
VALVE SIZE	INCHES	1				1.1/2" & 2				3				4				6 & 8				10 & 12										
	MM	25				40 & 50				80				100				150 & 200				250 & 300										
STD TRAVEL	1.1/8" (28MM)								1.1/2" (38MM)								2.1/2" (57MM)								3.1/2" (90MM)							
TRIM SIZE	INCHES	3/16	1/4	3/8 & 1/2	3/4 & 1	1	1 1/4	1 1/2	2	2	2 1/2	3	2 1/2	3	4	4	5	6	8	6	8	10	12									
	MM	4.5	6	10 & 15	20 & 25	25	32	40	50	50	65	80	65	80	100	100	125	150	200	150	200	250	300									
ACT. SIZE	LOAD	SHUTOFF PRESSURE (KG/CM ²) UPTO 600# (FLOW UNDER THE PLUG)																														
	KG/CM ²																															
030	0.2	UB	80	49	15	7.8																										
		B	N/A	N/A	N/A	N/A																										
	0.8	UB	380	249	79	42																										
		B	N/A	N/A	N/A	N/A																										
055	0.2	UB					12	7.5	4.5	2.5	1.2	0.5	0.4																			
		B					N/A	21	21	19	3.5	1.4	0.1																			
	0.8	UB					76	45	29	17	16	9	7																			
		B					N/A	190	190	187	111	109	107																			
095	0.2	UB							4.8	2.75	2	2	1.5	0.6																		
		B							29	27	26	13	12	9																		
	0.8	UB							30	18	13.5	17	13	6.3																		
		B							215	213	212	142	141	138	71	70	68	65														
140	0.2	UB									9	5	4	4	3	1.5	1	0.75	0.3	0.1												
		B									59	56	55	33	32	29	10	9	7	4												
	0.8	UB									46	27.5	21	26	20	9.5	9	7	4	2.2												
		B									333	330	329	223	222	219	117	116	114	111	68	66	64	63								
300	0.2	UB													4	3	1.8	0.9	1.5	0.8	0.4	1.25										
		B													50	50	48	45	26.5	24	22	20										
	0.8	UB													22	17	10	5.3	9.7	5	2.8	2.1										
		B													280	280	278	275	173	171	169	167										

• UB : P Values for contoured / V-Ported Unbalanced Trim V-Ported • B : P Values for Low Noise

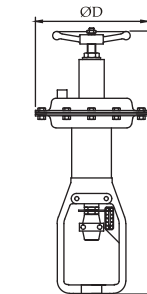
Actuator Dimensions



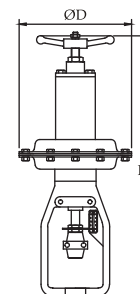
DIAPHRAGM ACTUATOR DIRECT-ACTING NTO



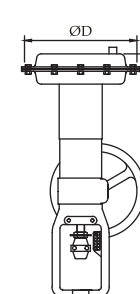
DIAPHRAGM ACTUATOR REVERSE-ACTING NTC



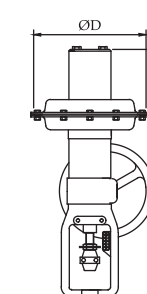
DIAPHRAGM ACTUATOR WITH TOP MOUNTED HAND WHEEL DIRECT-ACTING NTO



DIAPHRAGM ACTUATOR WITH TOP MOUNTED HAND WHEEL REVERSE-ACTING NTC



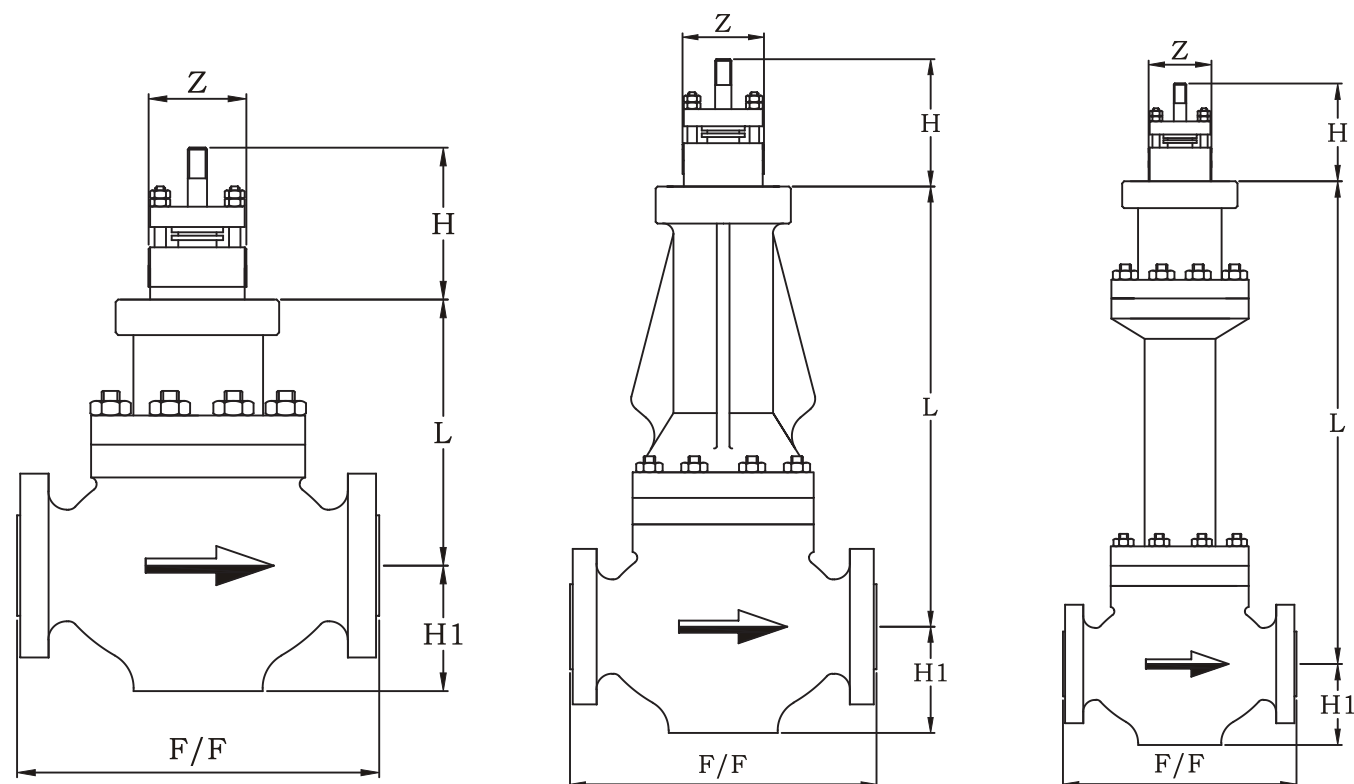
DIAPHRAGM ACTUATOR WITH SIDE MOUNTED HAND WHEEL DIRECT-ACTING NTO



DIAPHRAGM ACTUATOR WITH SIDE MOUNTED HAND WHEEL REVERSE-ACTING NTC

ACTUATOR MODEL	EFFECTIVE INCH ²	BONNET MOUNT DIA.	TRAVEL	ØD	HA	HA1	HA2	HA3	HA4	HA5
NTC - 030	30	54	28	218	-	348	-	493	-	650
NTO - 030	30	54	28	218	363	-	518	-	650	-
NTC - 055	55	54	28	286	-	488	-	571	-	691
NTO - 055	55	54	28	286	471	-	678	-	673	-
NTC - 055	55	71.5	38	286	-	537	-	616	-	739
NTO - 055	55	71.5	38	286	519	-	728	-	721	-
NTC - 095	95	54	28	371	-	507	-	609	-	724
NTO - 095	95	54	28	371	502	-	709	-	705	-
NTC - 095	95	71.5	38	371	-	571	-	653	-	773
NTO - 095	95	71.5	38	371	552	-	759	-	754	-
NTC - 140	140	71.5	38	443	-	600	-	699	-	842
NTO - 140	140	71.5	38	443	572	-	858	-	820	-
NTC - 140	140	90.5	57	443	-	731	-	834	-	977
NTO - 140	140	90.5	57	443	707	-	988	-	955	-
NTC - 300	300	71.5	38	616	-	768	-	-	-	1092
NTO - 300	300	71.5	38	616	723	-	-	-	1098	-
NTC - 300	300	90.5	57	616	-	818	-	-	-	1142
NTO - 300	300	90.5	57	616	773	-	-	-	1098	-
NTC - 300	300	90.5	90	616	-	984	-	-	-	1303
NTO - 300	300	90.5	90	616	934	-	-	-	1262	-
NTC - 300	300	90.5	102	616	-	1030	-	-	-	1407
NTO - 300	300	90.5	102	616	1030	-	-	-	1414	-

• NTO - Direct Acting Actuator (Used on supply failure Valve - opens) • NTC - Reverse Acting Actuator (Used on supply failure Valve - opens)
 • All Dimensions in mm. • The company's policy is one of continuous product improvement and the right is reserved to modify the specifications contained here in without notice.



VALVE WITH STANDARD BONNET

VALVE WITH NORMALIZING BONNET

VALVE WITH BELLOW SEAL BONNET

VALVE SIZE		ANSI 150 (NP 10, 16 BS-10-D,E)	ANSI 300 (NP 25,40 BS-10-F, H, J)	ANSI 600 (NP 64, 100 BS-10-K, R)	STEM IN UP POSITION	BONNET MOUNT DIA	HEIGHT FROM CENTER LINE			CENTER LINE TO BASE			STEM TRAVEL
INCH	MM	FACE TO FACE (F/F)			H	Z	STANDARD	NORMALIZING	BELLOW	ANSI 150#	ANSI 300#	ANSI 600#	H1
1/2	15	184	190	203	117	53.97	140	192	324	67	67	67	28
3/4	20	184	194	206	117	53.97	140	192	324	67	67	67	28
1	25	184	197	210	117	53.97	140	192	324	67	67	67	28
1.1/2	40	223	235	251	117	53.97	159	246	353	74	83	83	28
2	50	254	267	286	117	53.97	168	248	362	78	86	86	28
2.1/2	65	276	292	311	143	71.44	203	311	467	111	111	111	38
3	80	299	318	337	143	71.44	203	311	467	111	111	111	38
4	100	352	368	394	143	71.44	206	330	480	130	130	140	38
6	150	451	473	508	197	90.42	276	394	676	165	165	165	57
8	200	543	568	610	197	90.42	292	435	716	197	197	230	57
10	250	673	708	752	229	90.42	390	632	842	232	232	260	90
12	300	737	775	819	229	90.42	405	647	-	245	245	297	90
14	350	890	927	972	339	147.5	422	672	-	297	297	310	100
16	400	1016	1057	1108	244	147.5	543	745	-	343	343	353	100
18	450	1153	1194	1251	325	147.5	577	783	-	377	369	377	125

Nu-tech V-Notch Ball Valve gives non-clogging, high capacity, straight through flow control of fluids containing pulp and paper stock or slurries and fluids containing suspended solids or fibrous materials. The V-Notch Ball Valves are offered squared and clamped driven shaft plus ball shaft with splined connection designed for zero lost motion for highly accurate positioning and precise control.

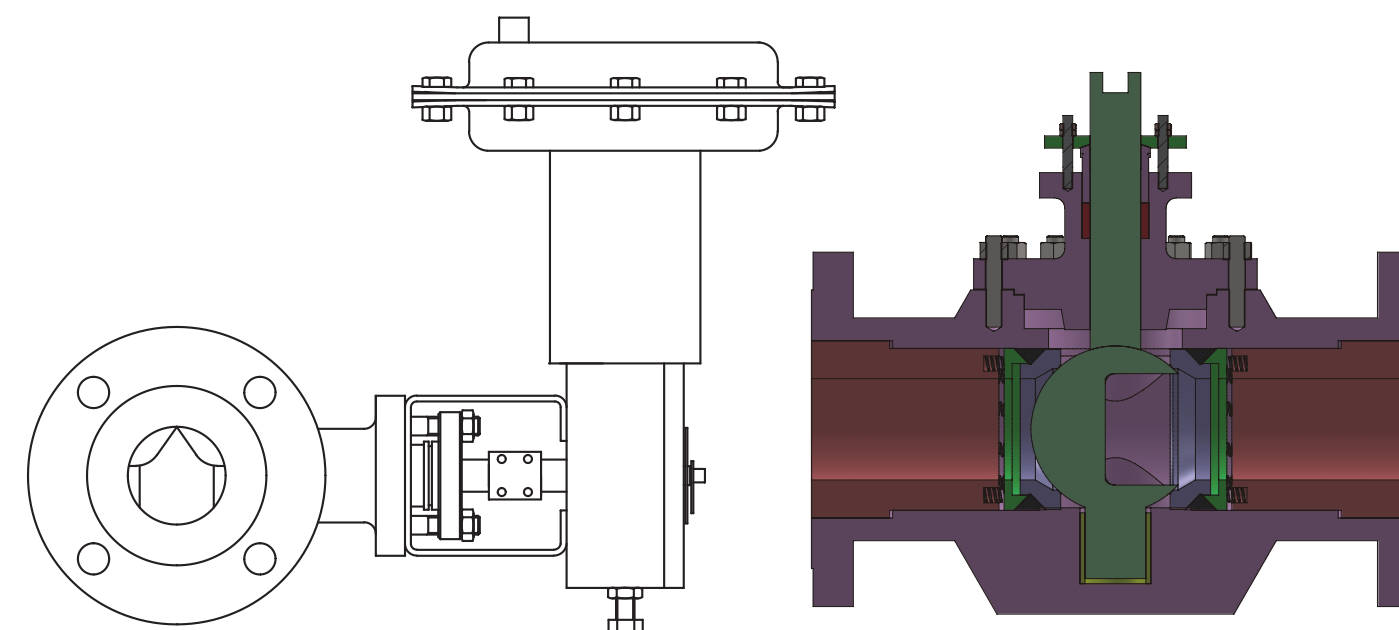
Design Features

- ▶ A Shearing effect between the ball and seal ensures tight shut-off, even on fibrous slurries.
- ▶ The unrestricted, straight – through flow design provides high capacity and wide rangeability.
- ▶ Precise contouring of the V-notch balls provides a nearly equal percentage characteristic.
- ▶ Replaceable ball seal and back up ring for added rigidity.
- ▶ Ball machined to a super smooth finish, hard – chrome plated and polished to increase ball seal life.
- ▶ High Cv to body size ratio.

QUALITY AND PERFORMANCE GUARANTEE

- ▶ Produced with Quality Systems accredited to ISO 9001 : 2015
- ▶ Full material certification available for all major component Parts.
- ▶ Full guarantee on design and Performance.
- ▶ All testing are performed to the requirements of ANSI B16.34.

VALVE SIZE	INCHES	1	1.1/2	2	2.1/2	3	4	6	8
	MM	25	40	50	65	80	100	150	200
CV (MAX.) AT 90° OPENING		26	78	120	220	325	595	1050	1750

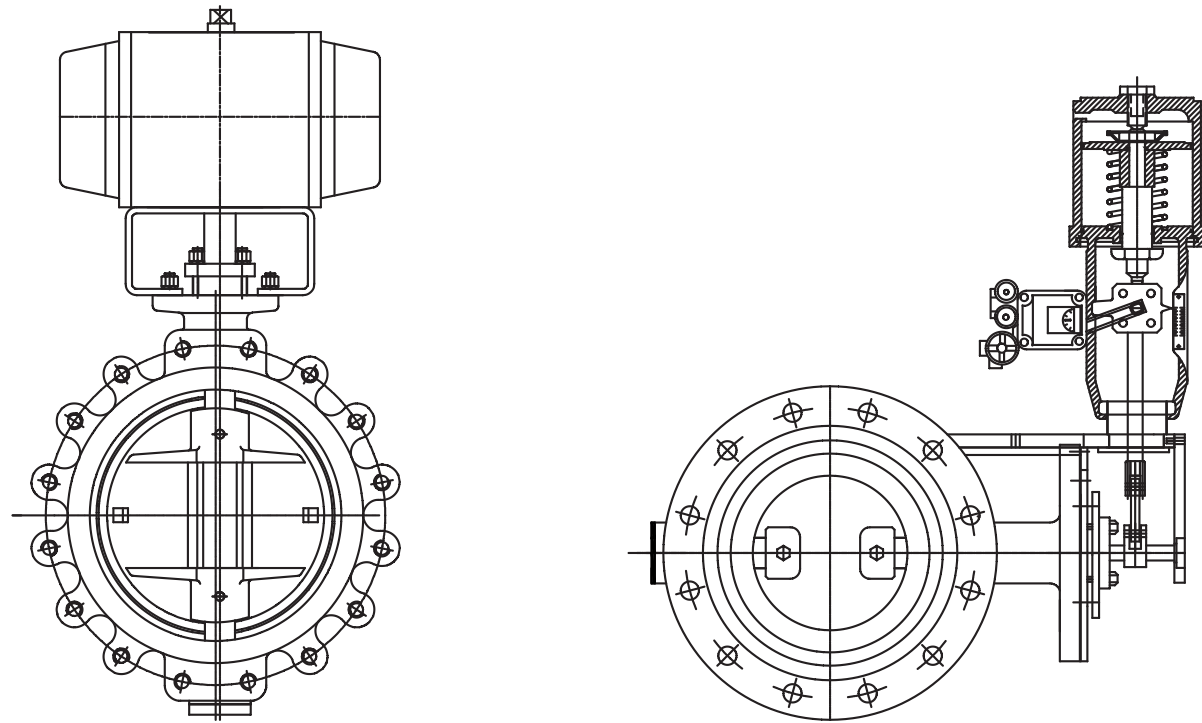


Butterfly Valve Series NT BFV

Nu tech butterfly valves are control on/off and shut-off valves. These valves are designed to handle a wide range of liquids, gases & steam within a broad temperature range. The solid seat remains un-affected by high flow velocities and temperatures. A good valve function is achieved even on difficult applications. The valve provided with electrical actuator or pneumatic actuator based on client requirement. We can also fit other types of actuators and accessories in accordance with your specification.

Design Features

- ▶ Compact construction results in low weight, less space in storage and installation.
- ▶ Central shaft position, 100% bidirectional bubble tight shut off makes installation acceptable at any direction.
- ▶ Full bore body gives low resistance to flow
- ▶ No cavities in the flow passage, easy to clean & disinfect for portable water system etc.
- ▶ Low operating torques results in easy operation & economical actuator sizing
- ▶ ISO 5211 top flanges for easy fitting of actuators



CV VALUE DETAIL WITH PERCENTAGE OPENING OF VALVE

DN	10°	20°	30°	40°	50°	60°	70°	80°	90°
80	16	35	55	83	124	189	233	270	235
100	24	51	80	123	181	276	372	431	374
125	40	86	133	203	301	460	598	695	601
150	57	124	193	294	435	667	897	1040	901
200	102	221	343	525	776	1184	1598	1851	1606
250	163	353	547	836	1237	1896	2542	2938	2555
300	238	512	795	1216	1800	2760	3701	4278	3720
350	320	692	1074	1642	2427	3714	4990	5752	5016
400	426	920	1428	2182	3230	4945	6641	7676	6675
450	671	1446	2243	3428	5074	7774	10431	12057	10484

Product Range

