



TWO-WAY GLOBE CONTROL VALVES



ABOUT US

Established in 1996, **TECNİK** is a trusted name for more than two decades in design and manufacturing of control & ON-OFF Globe, Ball, Butterfly & Diaphragm valves for simple to critical applications covering variety of industries e.g. Pharmaceutical, Chemical, Engineering, Oil & Gas, Petrochemical, Refineries, Cement, Sugar and Power industry.

The state-of-the-art production facility is located at MIDC Boisar (Maharashtra). **TECNİK** Group has established itself as the go-to manufacturer & supplier of final control elements to all the verticals of industry.

With strong in-house Technical support, **TECNİK** offers comprehensive “Flow Control Solutions” for any industrial requirement. Furthermore, with highly skilled and efficient team, we ensure custom built solutions to cover most vivid process applications.

TECNİK has obtained the International certifications like ISO 9001:2015, ISO 14001:2015, CE and Fugitive Emission Test certificate according to ISO-15848 Part 1: 2015th Edition.

We have established new testing facilities that enables our team to test as well as analyze the incoming raw material as per International standards or as per client requirements. Our Quality Control & Testing Setup has been further fractionated in order to perform the testing activities that perfectly meets standard norms. We follow precise approach and techniques in order to satisfy the technical requirements of every customer with most reliable testing solutions.

Our Vision

At the heart of **TECNİK** is our vision to be an organization valued for its product, performance, people & its partnerships.

Our Mission

- Trust, Integrity & Transparency with all stakeholders
- Product valued for its accuracy & quality
- Empowering work-culture that promotes ownership and commitment in people

Our Values

- Information Sharing
- Honesty and Truthfulness
- Reliability
- Integrity
- Empathy
- Zero Defect Product
- On Time Delivery
- Prompt Service Support

TECNİK UNICON 1000 Series Globe Control valves are engineered to handle the most demanding process conditions and exceed the capabilities of comparable designs. This style of valve satisfies majority of general process applications, best suitable where the process demands tight shut off, positioning accuracy, high rangeability and high flow capacity. Application includes utility service of steam, gas, corrosive fluids, viscous fluids and general applications.

Key Features:

- Excellent flow control rangeability.
- Multiple trim sizes.
- Modular system allows easy retrofitting and servicing.
- Top entry trim parts facilitate easy access to all internal parts for online inspection, maintenance and trim replacement.
- High degree of parts interchangeability, resulting in less inventory.
- Modular Construction.

Product Specifications:

Size	½" to 20" (DN 15 to 500)
Body Rating	ANSI CLASS 150 & 300
Leakage Class	ANSI/FCI 70-2 CLASS IV, V & VI
Cv Range	0.0045 TO 3000 USGPM
Flow Characteristics	EQUAL%, LINEAR or ON-OFF
Temperature Range	-196°C to 590°C



End Connections:

- Flanged End (RF, FF, RTJ & TG)
- Butt Weld End
- Socket Weld End up to 2"
- Screwed End up to 2"
- Tri-Clover End

Design and Testing Standards:

- Design Standard: ASME B16.34
- Rules for construction of PV : ASME SEC VIII
- Shell Design strength : SFS EN 12516-2
- Face to face : ANSI/ISA S75.08.01
- IBR 1950
- Hydro Static Testing: ANSI/ISA S75.19
- Seat Leakage : ANSI/FCI 70-2 or IEC 60534-4
- Visual surface inspection: MSS SP-55

TECNİK HICON 6000 Series globe control valves designed specially for high-pressure critical applications for boiler, power plant, oil and gas industries.

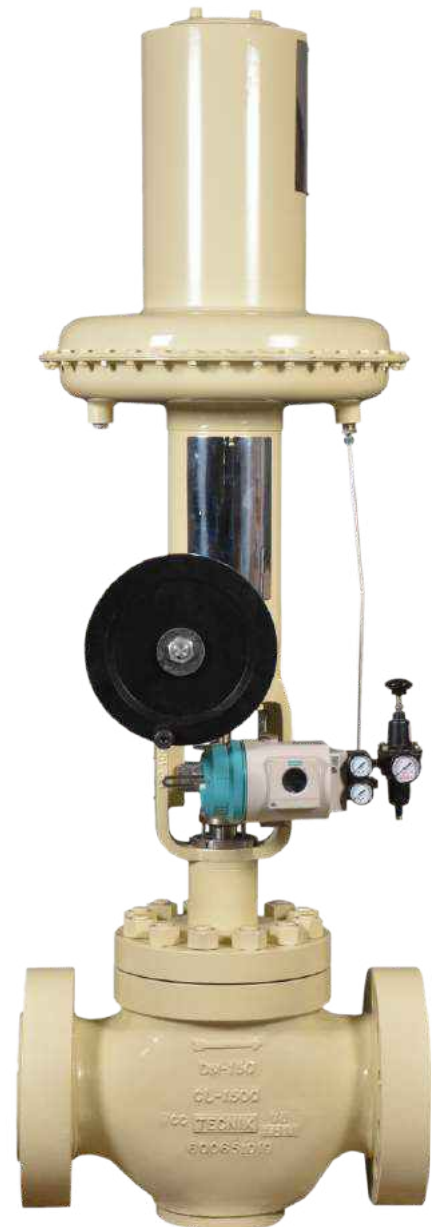
This valve can be customized with variety of low noise, asymmetric and anti-cavitation trims for fine proportional control with high rangeability and high flow capacity to counter severe pressure knockdown, cavitation, flashing and choked flow conditions.

Key Features:

- Design flexibility permits various type of end connections and trim styles.
- Large variety of trims forms, from single stage to multiple stage cage guided for Low noise / Anti-cavitation trim designs.
- Wide range of supplementary noise control options.
- Multiple trim sizes available.
- Various types of bonnet & packing available to suit various temperature and service media requirements.
- Modular system allows easy retrofitting and servicing.
- High degree of parts interchangeability.
- Wide selection of actuator sizes & spring ranges to meet the varying shut-off pressure.

Product Specifications:

Size	½" to 12" (DN 15 to 300)
Body Rating	ANSI CLASS 600 TO 2500
Leakage Class	ANSI/FCI 70-2 CLASS IV ,V & VI
Cv Range	0.0045 TO 1500 USGPM
Flow Characteristics	EQUAL%, LINEAR or ON-OFF
Temperature Range	-196°C to 590°C

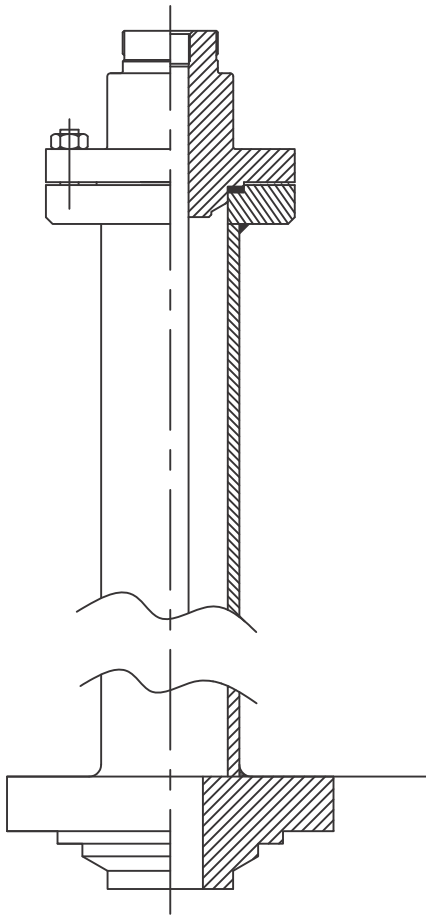


End Connections:

- Flanged End (RF, RTJ & TG)
- Butt Weld End.
- Socket Weld End up to 2"

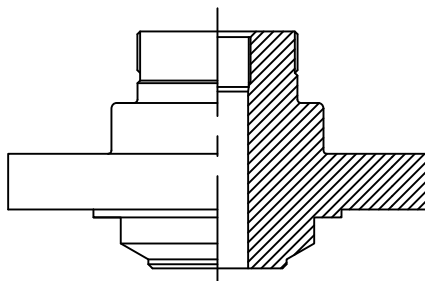
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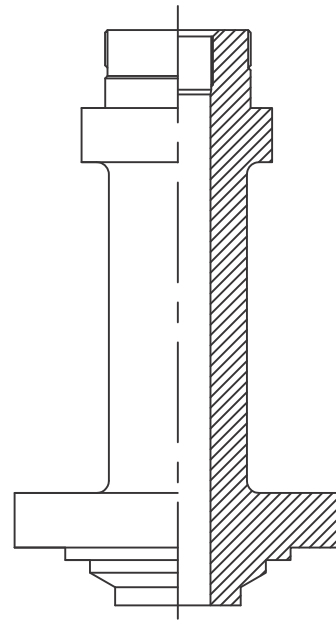
CRYOGENIC BONNET

This construction of bonnet protects the packing from the low temperature service fluid. Typically manufactured from SS 316 / 316L. It handles temperature upto -196°C .



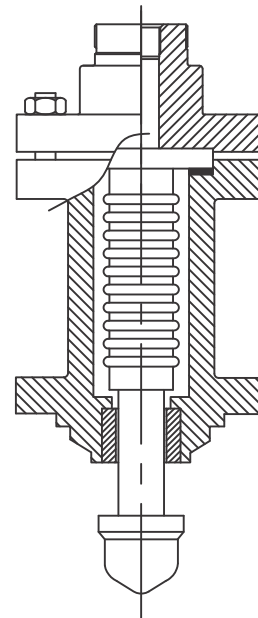
STANDARD BONNET

The Standard bonnet is usually constructed of the same material as the body and is suitable for a temperature range from -10°C to 200°C



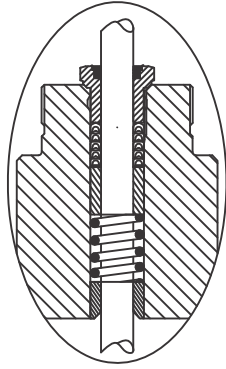
EXTENDED BONNET

The Extended bonnet protects the packing from excessive heat or cold which may affect the valve performance. This bonnet is suitable for temperature range from -28°C to 590°C



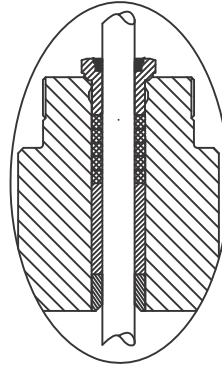
BELLOWS SEAL BONNET

The Bellows seal bonnet design ensures absolute sealing of the process fluid within their rated Pressure and temperature ranges. Usual application includes where process fluid is flammable, toxic, explosive or highly expensive. Suitable for temperature range from -29°C to 427°C



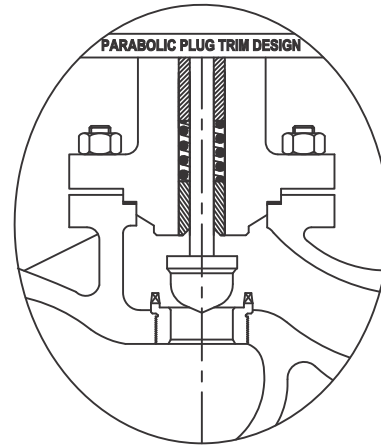
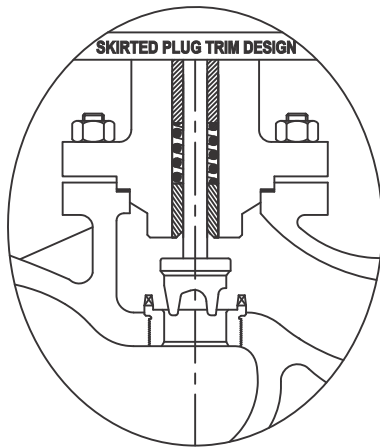
V-RING PACKING ARRANGEMENT

Self Adjusting & self lubricated spring loaded V-rings made of PTFE, suitable for temperature range from -27°C to 200°C and for application that require high level of sealing performance.

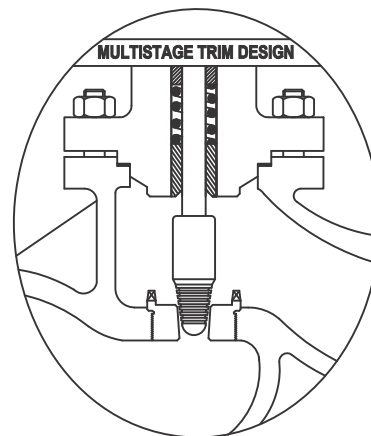
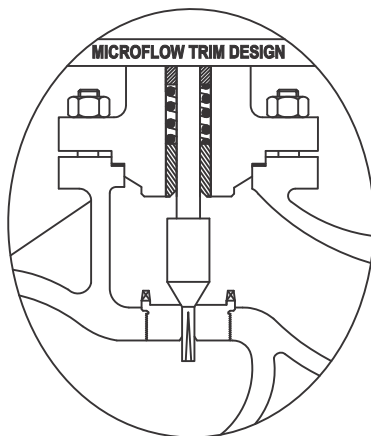


GRAFOIL RING PACKING ARRANGEMENT

Suitable for high temperatures, made from moulded Graphite rings, providing leakfree operation, high thermal conductivity and long service. Suitable for temperature range from -185°C to 590°C.

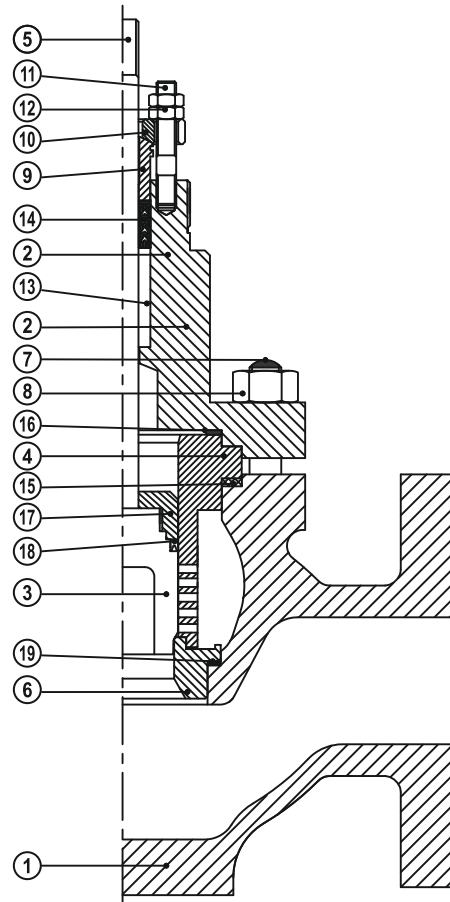


The Skirted / Parabolic plug trim design is suitable for modulating or tight shut-off applications satisfying a large percentage of process control requirements. This trim configuration provides both metal to metal & soft seat facing. The Skirted plug is double guided for maximum support & imparts complete stability, while Parabolic plug provides better control for intermediate pressure drop service.



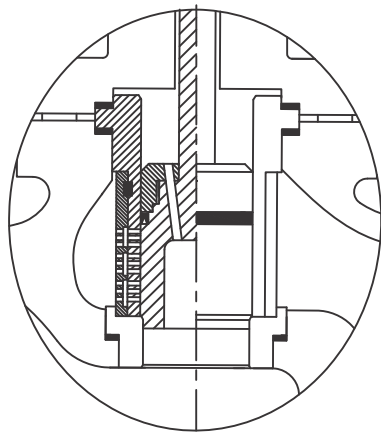
The Ultra Low Flow trim design is a seat guided construction having accurate control even on very low flow rates. The plug nose is precisely guided in the seat bore for through out valve travel to avoid breakage of the plug. These trims are available in multiple sizes to meet wide range of process applications.

PART LIST	
PART NO.	PART NAME
1.	BODY
2.	BONNET
3.	PLUG
4.	CAGE
5.	PLUG STEM
6.	SEAT RING
7.	BODY STUD
8.	BODY STUD NUT
9.	GLAND BUSH
10.	GLAND PUSHER
11.	GLAND STUD
12.	GLAND STUD NUT
13.	PACKING SPACER
14.	V-RING
15.	BODY GASKET
16.	BONNET GASKET
17.	SEAL RETAINER
18.	SEALING RING
19.	SEAT RING GASKET

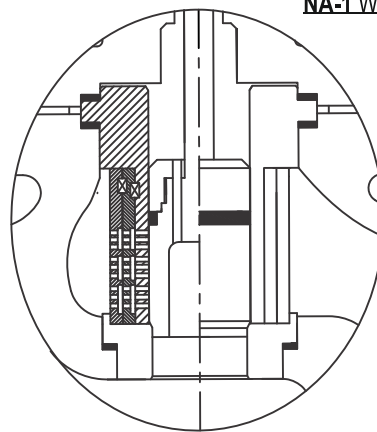


LOW NOISE & ANTI CAVITATIONAL TRIM DESIGNS

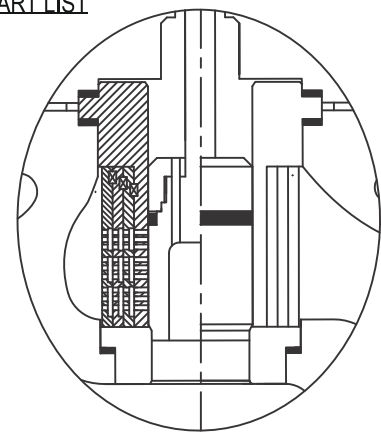
NA-1 WITH PART LIST



NA-2



NA-3



NA-4

This Noise Attenuator trim (Cage guided) design prevents cavitation forming and minimises hydrodynamic noise even under the most severe liquid applications. The unique flow channel stream design not only eliminates cavitation damage, but also provides easy maintenance & long life even when installed in the most difficult applications.

Design options :

- Noise Attenuator trim design (NA) with Single stage (NA-1), Double stage (NA-2), Triple stage (NA-3) & Four stage (NA-4) options.
- Equal percentage & Quick opening flow characteristics.
- Unbalanced plug with metal to metal or resilient seating face and Balanced plug with metallic or resilient piston ring options.

VALVE BODY MATERIALS :

Common Name	Casting Spec / Equivalent	Material Type	Temperature Range °C		Application
			Min	Max	
Carbon Steel	A216 WCB	C-Mn-Fe	-29	426	General & Non-Corrosive Service
	A216 WCC				
Low Temp. Carbon Steel	A352 LCB		-46	650	
	A352 LCC				
	A352 LC1				
Low Temp. Alloy Steel	A352 LC3		3,5 Ni	-101	
Low Alloy Steel	A217 WC1	C-0,5Mo	-29	468	
	A217 WC6	1,25Cr-0,5Mo			
	A217 WC9	2,25Cr-1Mo			
	A217 C5	5Cr-0,5Mo			
	A217 C12	9Cr-1Mo			
A217 C12A	9Cr-1Mo-V				
Stainless steel	A351 CF8	304 : 18Cr-8Ni	-196	535	General & Corrosive Service
	A351 CF3	304L : 18Cr-8Ni		427	
	A351 CF8M	316 : 16Cr-12Ni-2Mo		538	
	A351 CF3M	316L : 16Cr-12Ni-2Mo		427	
	A479 321	321 : 18Cr-10Ni-Ti		538	
	A351 CF8C	347 : 18Cr-10Ni-Cb(Nb)		538	
Alloy 20	A351 CN7M	28Ni-19Cr-Cu-Mo	-45	316	
Duplex 2205	A351 CD3MN	22Cr-5Ni-3Mo-N			
Super Duplex 2507	A351 CD4MCu	25Cr-7Ni-4Mo-N			
Monel 400	A494 M35-1	67Ni-30Cu	-196	480	
Inconel 600	A494 CY40	72Ni-15Cr-8Fe	-196	645	
Hastelloy C	A494 CW-2M	54Ni-15Cr-16Mo	-196	535	

* Other Special materials available on request

BONNET BOLTING SELECTION CRITERIA :

BODY MATERIAL	TEMPERATURE (° C)	BOLT MATERIAL	NUT MATERIAL
ASTMA216 WCB	-28 TO 426	A193 B7	A194 2H
ASTMA352 LCB	-45 TO 343	A193 B7	A194 2H
ASTMA217 WC1	-28 TO 426	A193 B7	A194 2H
	427 TO 454	A193 B7	A194 7
ASTMA217 WC6	-28 TO 426	A193 B7	A194 2H
	427 TO 537	A193 B7	A194 7
ASTMA217 WC9	-28 TO 426	A193 B7	A194 2H
	427 TO 537	A193 B7	A194 7
	538 TO 565	A193 B16	A194 7
ASTMA217 C5	-28 TO 426	A193 B7	A194 2H
	427 TO 537	A193 B7	A194 7
	538 TP 565	A193 B16	A194 4
ASTMA217 C12	-28 TO 426	A193 B7	A194 2H
	427 TO 537	A193 B7	A194 7
	538 TO 565	A193 B16	A194 4
ASTMA351 CF8	-253 TO 37	A320 B8	A194 8
	37 TO 815	A193 B8	A194 8
ASTMA351 CF8C	-253 TO 37	A320 B8	A194 8
	37 TO 815	A193 B8	A194 8
ASTMA351 CF8M	-198 TO 37	A320 B8	A194 8
	37 TO 815	A193 B8M	A194 8M
ASTM A352 Gr. LC3	-101 TO -45	A320 L7	A194 4 WITH CHARPY TEST
	-45 TO 343	A193 B7	A194 2H

GASKET SELECTION CRITERIA :

Standard Gaskets	Type	Gasket Material	Max Gasket Temperature °C	Min Gasket Temperature °C
	Flat	Grafoil	540	-185
	Flat	PTFE	177	-130
	Spiral wound	SS 316 + Grafoil	540	-30
	Spiral wound	Inconel + Grafoil	648	-240

* Other gasket materials available on request

Cv VALUES

Cv	0.2	0.3	0.5	0.8	1.3	2	3	5	8	13	20	32	50	75	100	125	190	240	320	430	615	920	1200	1400	2525																																			
VALVE SIZE	1/2"																																																											
	3/4"																																																											
	1"																																																											
	1.1/2"																																																											
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Note :- All Cv values are in US GPM.
 Reduced trim sizes are also available in various combinations.
 Valve Cv can be engineered as per Process Requirement.

Valve coefficient

A constant (Cv) related to the geometry of a valve for a given travel that is used to establish flow capacity. It is the number of U.S. gallons per minute of 60°F water that will flow through a valve with a one pound per square inch pressure drop. The valve coefficient is specified in the data sheets to identify the valves. It corresponds to the valve coefficient at the rated travel. In order to increase control accuracy and with regard to manufacturing tolerances, the selected valve coefficient must be higher than the valve coefficient.

Rangeability

The ratio to the largest flow coefficient (Cv) to the smallest flow coefficient (Cv) within which the deviation from the Specified flow characteristic does not exceed the stated limits.

Inherent flow characteristic

The inherent characteristic curve refers to the relationship between the valve position (stroke/travel) and the flow through the valve given at a constant pressure drop. It is usually defined as valve Cv versus travel and is determined experimentally. The shape of the curve that determines the characteristic can change from one valve to the next and can be customized to fit the application, but then there are three generally recognized shapes of curves; Linear, Equal percentage & Quick opening which are defined below.

Definitions:

Linear:

The linear flow characteristic curve shows that the flow is directly proportional to valve travel. Typical applications include liquid level control, linearized flow control.

Equal percentage:

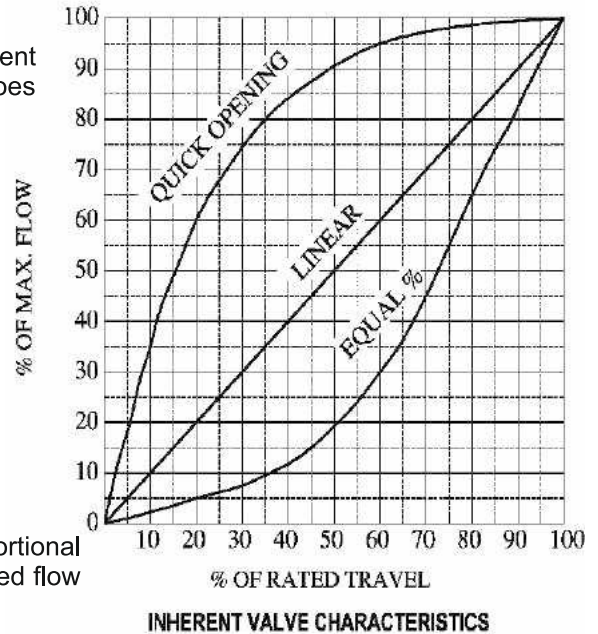
The equal percentage flow characteristic curve shows that the flow changes by a constant percentage of its instantaneous value for each unit of valve travel. Used on pressure control applications and other applications where a large percentage of pressure drop is normally absorbed by the system itself. Equal percentage trim also has the advantage, that it provides high Rangeability in control valves.

Quick opening:

The quick opening characteristic curve shows that the flow increases rapidly with Initial travel reaching near its maximum at a low travel. It is normally used for on-off service.

Seat leakage Classifications:

The Industry standard that is used to define how a valve needs to shut off to meet the requirements of a particular application. Under the compliance of ANSI/FCI 70-2 is summarized in table shown below.



LEAKAGE CLASS DESIGNATION	MAXIMUM LEAKAGE ALLOWABLE			TEST MEDIUM	PRESSURE & TEMPERATURE CONDITIONS
II	0.5% OF RATED VALVE CAPACITY AT FULL TRAVEL			AIR	SERVICE PR. OR 4 kg/cm ² . Whichever is lower at 10 to 51 °C.
III	0.1% OF RATED VALVE CAPACITY AT FULL TRAVEL				
IV	0.01% OF RATED VALVE CAPACITY AT FULL TRAVEL				
V	0.0005 ml /min /psi /inch. Port dia.			WATER	
VI	NOMINAL PORT DIAMETER	ml / min.	BUBBLES / min.		
	1	0.15	1		
	1.1/2	0.30	2		
	2	0.45	3	AIR	
	2.1/2	0.60	4		
	3	0.90	6		
	4	1.70	11		
	6	4.00	27		
	8	6.75	45		

Calculating the flow coefficient

A preliminary, simplified calculation may be made with the help of the working equations listed below. They do not take into account the influence of the connecting fitting or choked flow at critical flow velocities.

Valve Sizing Formulas

The following definitions apply in the following formulas:

C_v	Valve flow coefficient, U.S. GPM with P=1 psi
P_1	Inlet Pressure at maximum flow, psia (abs.)
P_2	Outlet pressure at maximum flow, psia (abs.)
ΔP	$P_1 - P_2$ at maximum flow, psia (abs.)
Q	Fluid Flow, US GPM
Q_a	Air or Gas flow, Standard Cubic Feet per Hour (SCFH) at 14.7 psig and 60°F
W	Steam Flow, pounds per hour (lb/hr)
S	Specific Gravity of fluid relative to water @ 60°F
G	Specific Gravity of gas relative to air at 14.7 psig and 60°F
T	Flowing air or gas temperature (°F)
K	$1 + (0.0007 \times \text{°F super heat})$, for steam
V_2	Specific Volume, cubic feet per pound, at outlet pressure P_2 and absolute temperature $(T + 460)$
K1	Viscosity correction factor for fluids

Viscosity factors

The relationship between kinematic and absolute viscosity:

$$\text{Centistoke} = \frac{\text{Centipose}}{\text{Specific Gravity}}$$

Formulas	Remarks
1. For liquids (water, oil, etc.): $C_v = Q \sqrt{\frac{S}{\Delta P}}$ $C_v = K_v Q \sqrt{\frac{S}{\Delta P}}$	Specific gravity correction is negligible for Water below 200°F (use $S = 1.0$). Use actual specific gravity S of other liquids at actual flow temperature. Use this for fluids with viscosity correction fact. Use actual sp. Gravity S for fluids at actual flow temperature.
2. For gases (air, natural gas, propane, etc.): $C_v = \frac{Q_a \sqrt{G(T+460)}}{1360 \sqrt{\Delta P (P_2)}}$ $C_v = \frac{Q_a \sqrt{G(T+460)}}{660 P_1}$	When $P_2 > \frac{1}{2} P_1$ When $P_2 \leq \frac{1}{2} P_1$
3. For steam: (saturated or superheated): $C_v = \frac{WK}{2.1 \sqrt{\Delta P (P_1 + P_2)}}$ $C_v = \frac{WK}{1.82 P_1}$	When $P_2 > \frac{1}{2} P_1$ When $P_2 \leq \frac{1}{2} P_1$
4. For vapors other than steam: $C_v = \frac{WK}{63.4} \sqrt{\frac{V_2}{\Delta P}}$	When $P_2 \leq \frac{1}{2} P_1$, then use the value of P_1 in place of P and use P_2 corresponding to $\frac{1}{2} P_1$ when determining sp. Volume V_2

Selecting the valve

After calculating the valve coefficient, the corresponding valve coefficient of the valve type in question is selected from the data sheet. In case, real operating data are used in the calculation, the following generally applies: $C_{v \max} = 0.7$ to $0.8 C_v$.

Selection and ordering

Selection and sizing of the control valve

1. Calculate the required valve flow coefficient according to the sizing formula..
2. Select the C_v and the nominal size DN according to the table mentioned in the product catalogue.
3. Select the appropriate valve characteristic on the basis of the behavior of the control system.
4. Determine the permissible differential pressure ΔP and select an appropriate actuator using the differential pressure tables included in the associated data sheet.
5. Select the materials to be used with regard to corrosion, erosion, pressure and temperature using the materials tables and the associated pressure-temperature diagram.
6. Select the additional equipment, such as positioners and/ or limit switches.

TECNİK's new generation multi-spring actuators offer a distinctive advantage of low profile. These are pneumatically operated for linear movement of valve plug with precise control. Best suitable for modulating and on-off process applications.

These actuators are available with the following fail-safe actions;

- ❖ **Air fail to open:** The spring causes the actuator stem to move in the upward position, when the diaphragm is relieved of pressure or when the supply air fails.
- ❖ **Air fail to close:** The spring causes the actuator stem to move in the downward position, when the diaphragm is relieved of pressure or when the supply air fails.

Key features :

- ✓ Compact, lightweight and low overall height.
- ✓ Powerful thrusts at high stroking speed.
- ✓ Field reversible without any additional parts
- ✓ Different spring range by varying the number of springs or compression.
- ✓ NAMUR yoke reduces backlash.
- ✓ Manual operation incorporated with handwheel arrangements.
- ✓ Variety of models available for low & high thrust requirements.
- ✓ Long service life & maintenance free.

Specifications :

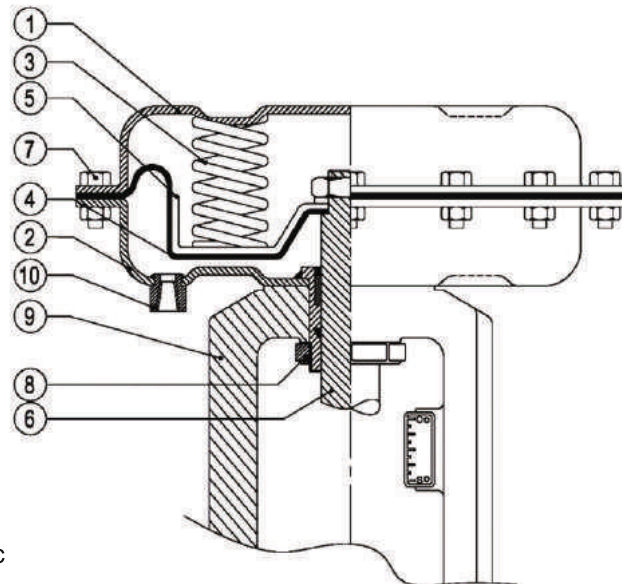
- Diaphragm area : 36, 60, 75, 108, 150 & 300 in²
- Maximum supply pressure : 6 bar
- Operating temperature range : -50 to 120°C
- Air connections : 1/4" NPT & 3/8" NPT
- Diaphragm material : NBR (Nitrile Rubber) with fabric reinforcement, EPDM with fabric reinforcement
- Actuator stem : SS 316
- Actuator stem sealing : NBR
- Diaphragm casing : Sheet steel, powder coated Stainless steel available on request

Ordering information

When ordering specify;

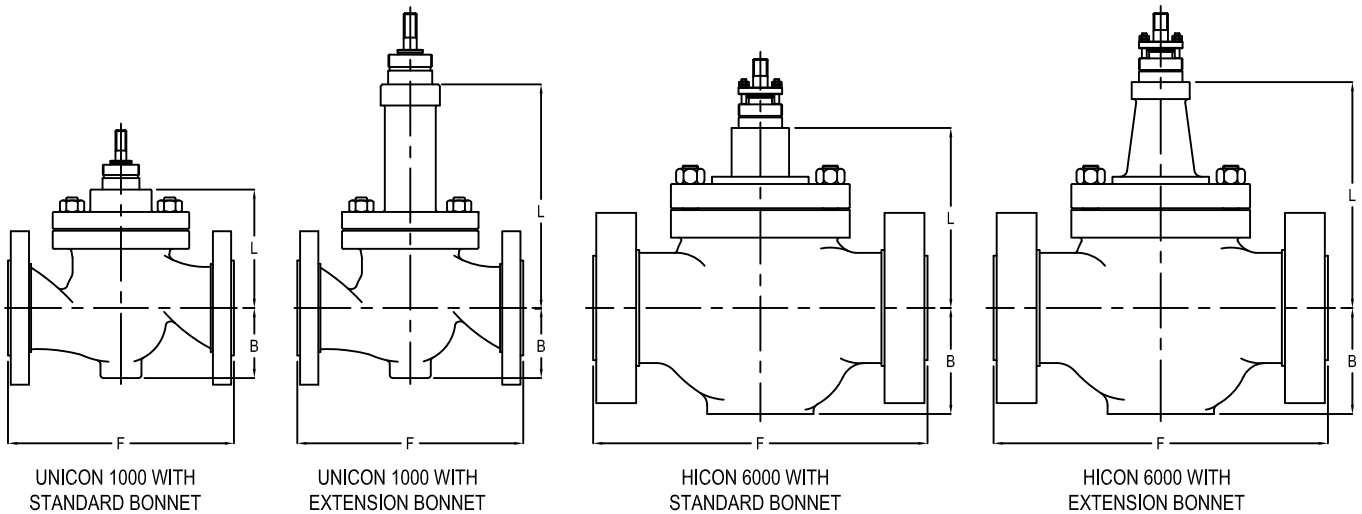
- Application required.
- Actuator type.
- Valve plug travel.
- Spring range.
- Valve action
- Supply pressure
- Air connection.
- Mounting details.

SECTIONAL VIEW OF ACTUATOR



PART LIST	
PART NO.	PART NAME
1.	UPPER CASING
2.	LOWER CASING
3.	SPRING
4.	DIAPHRAGM
5.	DIAPHRAGM PLATE
6.	ACTUATOR STEM
7.	CASING BOLTS & NUTS
8.	LOCK NUT
9.	YOKE
10.	SIGNAL PRESSURE CONNECTION

- Face to Face dimensions are for RF Flanges only.
- Flanges dimensions for 150#, 300#, 600#, 900# & 1500# are in accordance with ANSI / ASME B16.5.
- Face to Face dimensions for 150#, 300# & 600# are in accordance with ISA -75.08.01.
- Face to Face dimensions for 900# & 1500# are in accordance with ISA-75.16.06.
- For other valve ratings consult factory.
- **TECNİK** reserves the right to change the contents without prior notice.

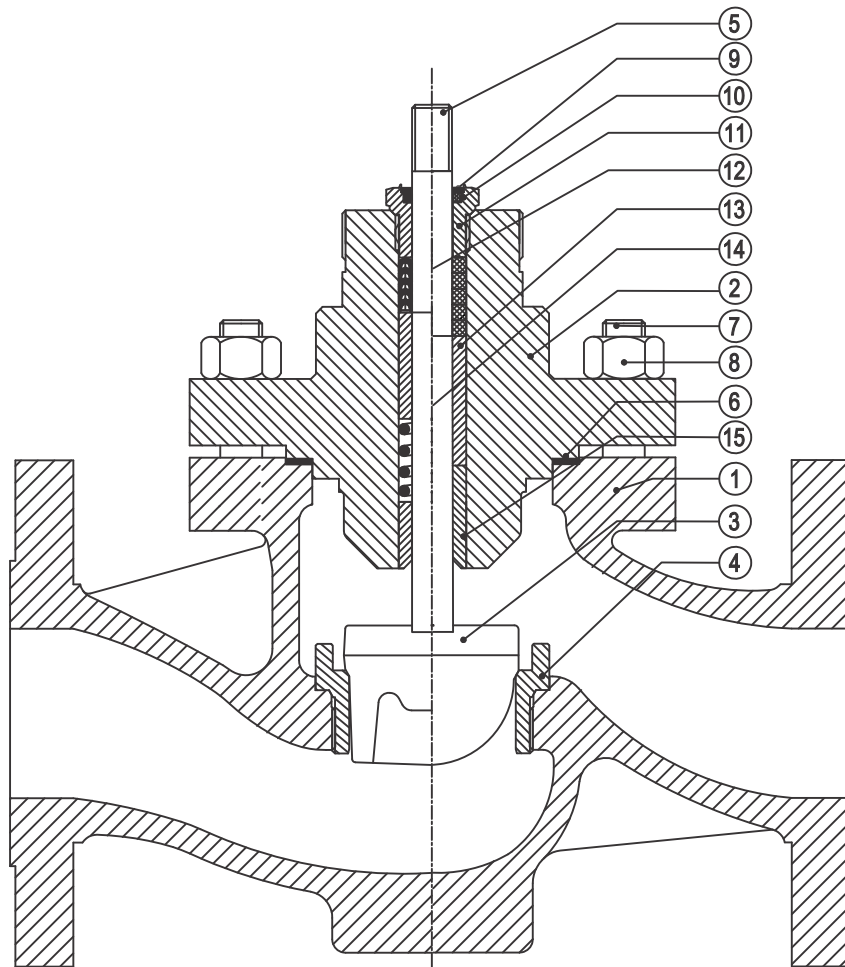


SERIES UNICON 1000

VALVE SIZE		FACE TO FACE DIMENSIONS RF FLANGES ANSI RATING F (mm)		CENTERLINE TO YOKE MOUNT - 'L' (mm)		CENTERLINE TO BASE B (mm)
Inch.	DN			STD BONNET	EXT. BONNET	
		150 #	300 #			
½ to 1	15 to 25	184	197	105	205	45
1.1/2	40	222	235	120	245	72
2	50	254	267	120	254	72
3	80	298	318	165	300	98
4	100	352	368	190	350	116
6	150	451	473	250	390	183
8	200	543	568	371	445	198
10	250	673	708	450	580	250
12	300	737	775	516	650	245
14	350	889	927	560	700	325
16	400	1016	1057	610	770	340

SERIES HICON 6000

VALVE SIZE		FACE TO FACE DIMENSIONS RF FLANGES ANSI RATING F (mm)			CENTERLINE TO YOKE MOUNT L (mm)				CENTERLINE TO BASE B (mm)	
Inch.	DN				STD. BONNET		EXT. BONNET			
		600 #	900 #	1500 #	600 #	900 # / 1500 #	600 #	900 # / 1500 #	600 #	900 # / 1500 #
1	25	210	273	273	132	150	191	196	65	81
1.1/2	40	251	311	311	151	180	221	261	83	90
2	50	286	340	340	186	206	266	291	88	100
3	80	337	387	406	211	253	312	324	111	150
4	100	394	464	483	253	270	353	370	143	143
6	150	508	600	692	312	373	400	467	184	220
8	200	610	781	838	366	450	446	540	212	253
10	250	752			472		572		290	
12	300	819	1016	1130	578		728		345	



UNICON 1000 SERIES

VALVE PART LIST			
PART NO.	PART NAME	PART NO.	PART NAME
1.	BODY	9.	GLAND WASHER
2.	BONNET	10.	CARBON RING
3.	PLUG	11.	GLAND NUT
4.	SEAT RING	12.	V-RING
5.	PLUG STEM	13.	PACKING SPACER
6.	BODY GASKET	14.	SPRING
7.	BODY STUD	15.	GUIDE BUSH
8.	BODY STUD NUT		

Our Range of Products:

TECNIK

#TrustedTecnik



Unicon 1000
Low Flow Valves



Bellow Seal Valves



Three Way Valves



Teflon Lined
Globe Valves



Ball Valves



Flush Bottom Valves



Butterfly Valves

TECNIK 1030 E/P Positioner -
Flameproof



Electro-Pneumatic
Positioner



Volume Booster



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