

Globe & Angle Control Valve

Best Technology
Best Service

Through **VIV**



VIV

Value in Valve



Globe Control Valve

with Anti-cavitation & Low Noise Trim

Features

The heavy duty cage guided balance valves ideally suited to high pressure drop compressible and incompressible fluids as it enables the flow velocity to be controlled through the valve by the incorporation of an increased outlet and pressure drop elements in the outlet end.

Also, the range of valves combines high integrity features, such as ASME VIII body & bonnet bolting design, a high flow capacity and a wide range of trim designs. This means it is ideally suited to meet the various critical service process control requirements that are demanded from a wide range of industry related applications.

Performance

- Stable flow control with high rangeability
- Low-noise, anti-cavitation control and erosion resistant trims
- Streamline flow passages to secure capacity

Design Application Flexibility

- Various construction design available with a range of different end styles and connections
- Large variation of trim designs from single stage multi-hole cage to multi-stage low noise, anti-cavitation trim designs
- Wide range of applicable noise control components, silencers, baffle plates
- Inherently characterized trim offered in Equal Percentage, Modified %, Linear, and Quick Open
- All trim components removable from the top side for easy of maintenance
- Large range of CVs per body size allowing for wide applicable in process conditions
- Clamped cage for heavy duty guiding on severe service applications
- High integrity cage guiding system
- Low emission packings available

Multi-stage Multi-path Trim

The trim design presented a multi-path multi-stage trim. There are 1~50 Stage designs available depending on pressure drop and potential for cavitation. The fluid passes through the flow path generated by incorporating angled flats onto the surface of the plug, together with a cut out on the internal diameter of the seat. The pressure drop is apportioned across the stages of letdown so that the pressure drop progressively reduces as it passes through the stages of the trim. This gives excellent resistance to cavitation on high pressure drop applications. For very high pressure drop applications the plug and seat insert would be standard manufactured from hardened stainless steel, stellite stainless steel, and tungsten carbide or glass metallic optionally.

Quality Assured Manufacturing

- Strictly tested to ensure specified performance with quality assurance systems in according to ISO 9001

Others

- Diaphragm actuators enclosed, Heavy duty Cylinders (spring-cylinder and double-cylinder) available.
- Applicable for various Instruments(Positioner, SOV, Lim. S/W, ...)



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Valve Body & Trim

Description	Manufacturing Range
Body Size	1-1/2"(40 mm) ~ 24"(600 mm)
Ratings	ANSI Class 150 ~ 4500
Connections	Flanged, Butt-Weld, Socket-Weld
Body Material	A216 Gr-WCB, A217 Gr-WC6, WC9, A351 Gr-CF8, CF8M, Alloy Steel available
Trim Material	304, 316, 420, 630SST, 17-4PH, Hard Facing, Alloy Steel available

General Specifications

Flow Direction : Flow to Open and Flow to Close

Max. Fluid Temperature : 650 °C

Min. Fluid Temperature : -198 °C

Seat Leakages : ANSI /FCI -Class IV or V for Metal Seat

* ANSI /FCI -Class VI for Teflon Soft Seat & Seal (-198 °C ~ 230 °C)

Body : Globe Single Seated Top Guide

Bonnet Type : Stud Bolted

* Standard Type : -20 ~ 280 °C

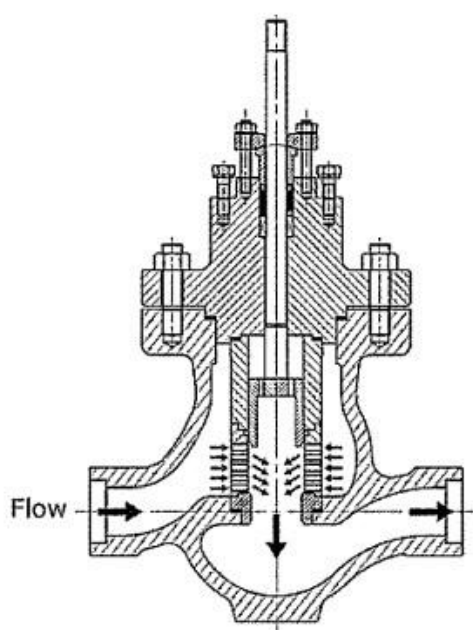
* Extension Type : 281 ~ 650 °C & under -20 °C

Flow Characteristics : Equal Percentage, Linear, Modified %, Semi-Throttle

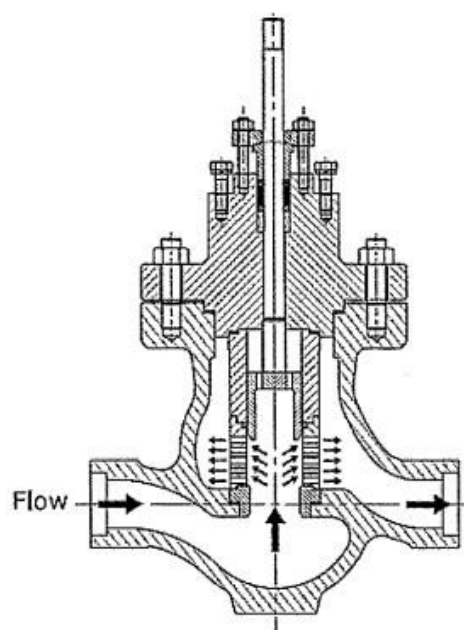
Cv Ratio : 50:1

Diaphragm actuators enclosed, Heavy duty Cylinders(spring-cylinder and double-cylinder) available.

Applicable for various Instruments(Positioner, SOV, Lim. S/W,)



Flow to Close

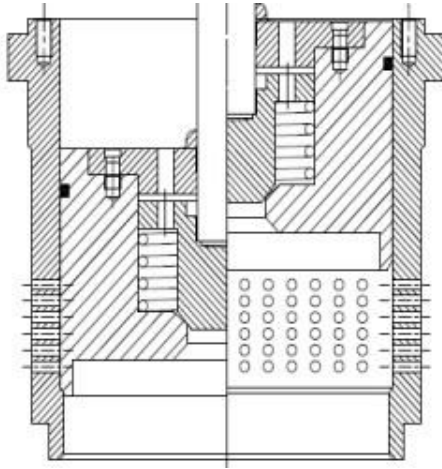


Flow to Open

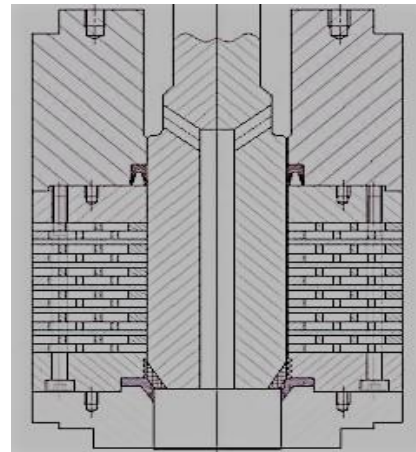
Globe Control Valve

with Anti-cavitation & Low Noise Trim

Trim Design Applications

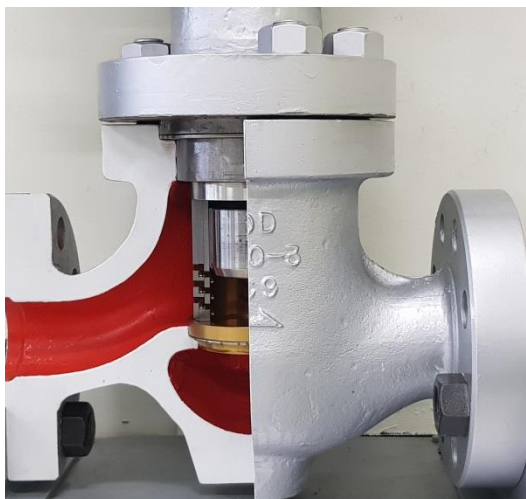


1 - stage Trim



Multi - stage Trim

Body Constructions



Globe Control Valve

with Anti-cavitation & Low Noise Trim

Body Materials : Carbon Steel or Alloy Steel

Description	Material	Description	Material
1 Body	ASTM A216 Gr-WCB / Alloy Steel available	12 Cage Guide	304, 316, 420, 630 SST / 17-4PH / Hard Facing and Alloy Steel available
2 Bonnet	ASTM A216 Gr-WCB / Alloy Steel available	13 Cage	304, 316, 420, 630 SST / 17-4PH / Hard Facing and Alloy Steel available
3 Plug Stem	316 SST / 630 SST	14 Seat Ring	304, 316, 420, 630 SST / 17-4PH / Hard Facing and Alloy Steel available
4 Packing Stud & Nut	316 / 304 Stainless Steel	15 Seat Ring Gasket	316 SST with Grafoil Filler
5 Packing Flange	316 / 304 Stainless Steel	16 Plug	304, 316, 420, 630 SST / 17-4PH / Hard Facing and Alloy Steel available ¹⁷
6 Gland	316 / 304 Stainless Steel	17 Plug Stem Pin	316 Stainless Steel
7 Packing	PTFE Carbon Fiber / Graphite / Grafoil + Graphite	18 Retaining Ring	Inconel X-750
8 Packing Spacer	316 / 304 Stainless Steel	19 Auxiliary Plug	416 SST A487 Gr CA6NM
8A Lantern Ring	316 / 304 Stainless Steel	20 Plug Spring	17-7 PH ASTM A693 Gr631 / ASTM A564 Gr 630
9 Body Stud & Nut	A193 B7 & A194 2H		
10 Body Gasket	316 SST with Grafoil Filler		
11 Seal Ring	Pr. PTFE Seal / Pr. PTFE+Graph / Pilot Plug Seal / Metal Seal / Graphite Seal / Others		

Body Materials : Stainless Steel

Description	Material	Description	Material
1 Body	ASTM A351 Gr-CF8 / A351 Gr-CF8M	12 Cage Guide	304, 316, 420, 630 SST / 17-4PH / Hard Facing and Alloy Steel available
2 Bonnet	ASTM A351 Gr-CF8 / A351 Gr-CF8M	13 Cage	304, 316, 420, 630 SST / 17-4PH / Hard Facing and Alloy Steel available
3 Plug Stem	316 SST / 630 SST (condition H1075)	14 Seat Ring	304, 316, 420, 630 SST / 17-4PH / Hard Facing and Alloy Steel available
4 Packing Stud & Nut	316 / 304 Stainless Steel	15 Seat Ring Gasket	316 SST with Grafoil Filler
5 Packing Flange	316 / 304 Stainless Steel	16 Plug	304, 316, 420, 630 SST / 17-4PH / Hard Facing and Alloy Steel available ¹⁷
6 Gland	316 / 304 Stainless Steel	17 Plug Stem Pin	316 Stainless Steel
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10 Body Gasket	316 SST with Grafoil Filler		
11 Seal Ring	Pr. PTFE Seal / Pr. PTFE+Graph / Pilot Plug Seal / Metal Seal / Graphite Seal / Others		

Globe Control Valve

with Anti-cavitation & Low Noise Trim

Flow Coefficients - Rated Cv

Standard Cage Trim

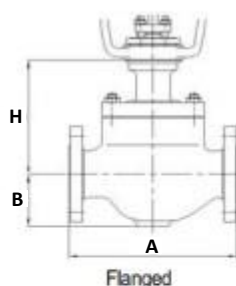
Valve Size (inch)				Rated Travel (mm)	Rated Cv						
ANSI Class					Standard Cage Trim				Tendril Trim (1-Stage)		
150 300	600	900 1500	2500		Linear		EQ%		Linear		
					Full	Reduced	Full	Reduced	Standard	Reduced	High Capacity
1-1/2	1-1/2	2	2	20	38	19	34	17	28	14	
2	2	3	3	40	74	37	67	34	54	27	65
3	3	3	4	50	156	78	140	70	98	46	122
4	4	4	6	50	230	115	208	104	146	72	180
6	6	6	8	70	420	210	380	190	220	110	310
				50	400	200	360	180	170	85	
8	8	8	8	80	720	360	650	325	360	170	510
				70	680	340	615	308	300		
10	10	10	10	100	1220	610	1100	550	600	300	720
				80	1040	520	940	470	440		
12	12	12	-	130	1600	800	1440	720	740	370	1200
				100	1460	730	1320	660	680		
14	14	-	-	160	2200	1100	2000	1000	1050	525	1560
				130	2000	1000	1800	900	920		
16	16	-	-	160	2920	1460	2640	1320	1340	670	1960
				130	2660	1330	2400	1200	1150		
18	18	-	-	200	3800	1900	3440	1720	1880	960	2640
				180	3400	1700	3100	1550	1660		
20	20	-	-	220	5000	2500	4500	2250	2200	1100	3200
				200	4200	2100	3780	1890			
24	-	-	-	250	6800	3400	6200	3100	3200	1600	4200
				220	6100	3050	5500	2750			

The Cv values shown in our catalogue are for reference only.

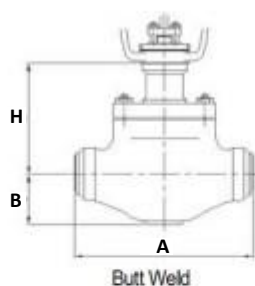
Globe Control Valve

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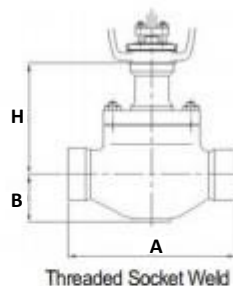
Dimensions



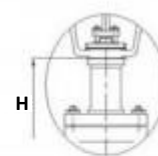
Flanged



Butt Weld



Threaded Socket Weld



Extension Bonnet

(unit : kg)

Valve Size (inch)	A							
	RF Flange					Welding		
	ANSI Class					ANSI Class		
	150	300	600	900	1500	150~600	900, 1500	2500
1-1/2	222	235	251	-	-	251	-	-
2	254	267	286	375	375	286	375	400
3	298	318	337	441	460	337	460	498
4	352	368	394	511	530	394	530	575
6	451	473	508	714	768	508	768	762
8	543	568	610	914	972	610	972	1029
10	673	708	752	991	1067	752	1168	-
12	737	775	819	1130	1219	819	1219	-
14	889	927	972	-	-	972	-	-
16	1016	1057	1108	-	-	1108	-	-
18	1140	1190	-	-	-	1235	-	-
20	1703	1745	-	-	-	-	-	-

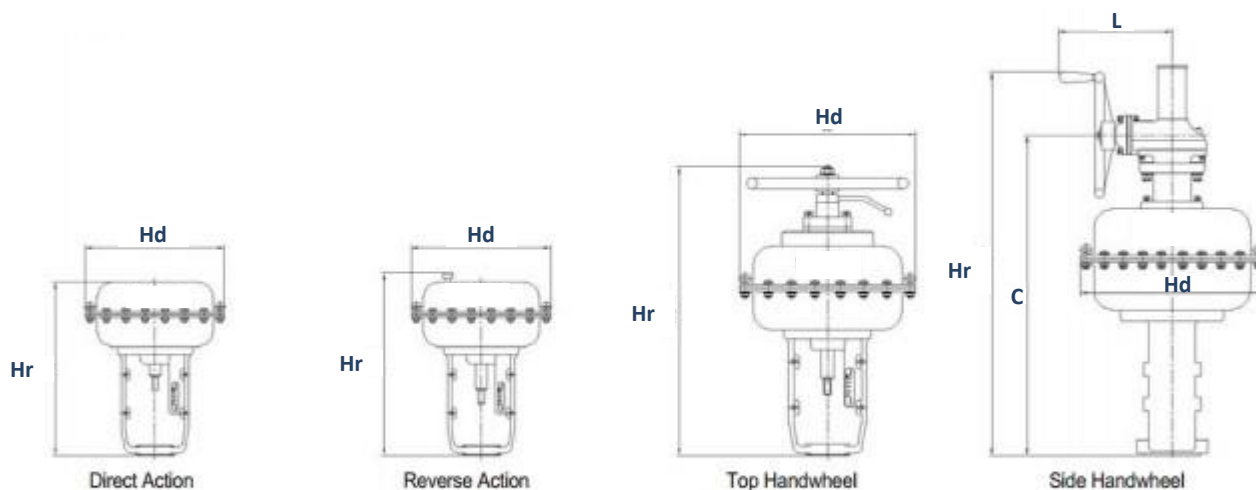
(unit : kg)

Valve Size (inch)	B		H			
	ANSI Class		Standard		Extension	
			ANSI Class		ANSI Class	
	~600	900, 1500	~600	900, 1500	~600	900, 1500
1-1/2	59	-	225	-	315	-
2	95	73	260	-	367	-
3	117	122	310	350	460	502
4	130	163	340	350	460	550
6	201	198	405	393	536	622
8	225	240	505	523	645	709
10	275	283	575	-	746	-
12	365	380	625	-	799	-
14	418	-	670	-	869	-
16	485	-	710	-	910	-
18	520	-	810	-	1020	-
20	550	-	900	-	1100	-

Globe Control Valve

with Anti-cavitation & Low Noise Trim

Actuators and Handwheels



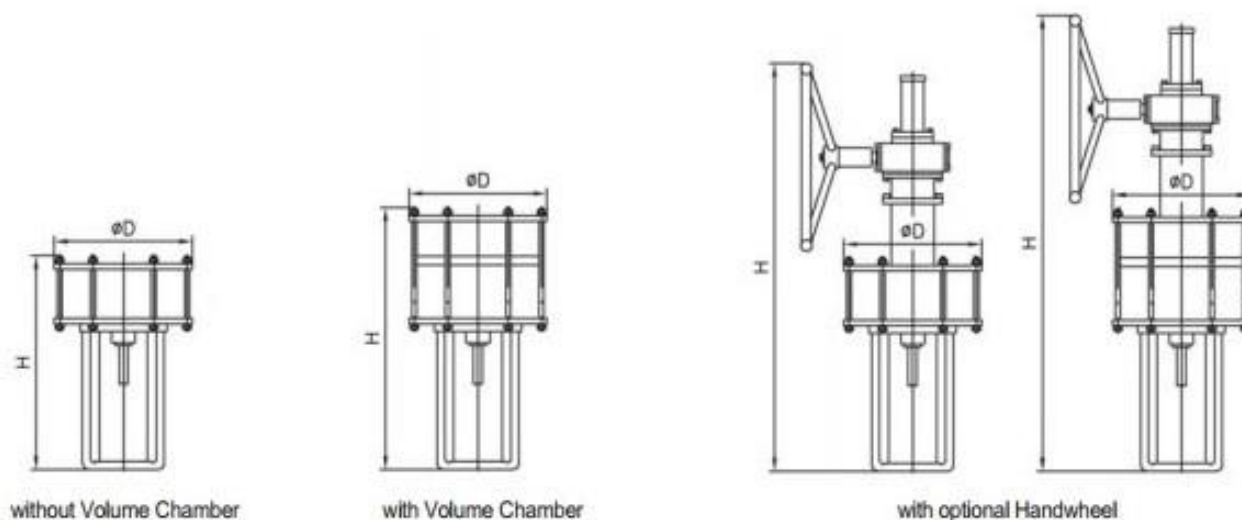
Dimensions

(unit : mm)

Actuator Size	D	Without Handwheel		Handwheel Type	With Handwheel			
		DA	RA		DA	RA	C	L
		Hd	Hr		Hd	Hr		
#25	250	332	352	Top	450	473	-	-
#29	290	369	419	Top	534	569	-	-
#37	370	410	460	Top	575	620	-	-
#48	480	629	679	Side	979	979	779	260
#55	550	678	728	Side	1,098	1,098	848	300
#55H	550	728	778	Side	1,148	1,148	848	300

Globe Control Valve

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Dimensions

Actuator Size	D	H								
		Travel (mm)								
		40	50	70	80	100	130	150	200	300
Without Volume Chamber										
#30	375	510	520	540	550	570	600	-	-	-
#40	465	585	595	615	625	645	675	695	745	845
#50	575	605	615	635	645	665	695	715	765	865
With Volume Chamber (Chamber Capacity)										
#30(10)	375	635	645	665	675	695	725	-	-	-
(20)		735	745	765	775	795	825	-	-	-
(30)		785	795	815	825	845	875	-	-	-
#40(10)	465	715	725	745	755	775	805	825	875	975
(20)		815	825	845	855	875	905	925	975	1,075
(30)		860	870	890	900	920	950	970	1,020	1,120
#50(10)	575	730	740	760	770	790	820	840	890	990
(20)		825	835	855	865	885	915	935	985	1,085
(30)		860	870	890	900	920	950	970	1,020	1,120
with Handwheel - Without Volume Chamber										
#30	375	770	780	800	810	830	860	-	-	-
#40	465	965	975	995	1,005	1,025	1,055	1,075	1,125	1,225
#50	575	985	995	1,015	1,025	1,045	1,075	1,095	1,145	1,245
with Handwheel and Volume Chamber (Chamber Capacity)										
#30(10)	375	895	905	925	935	955	985	-	-	-
(20)		995	1,005	1,025	1,035	1,055	1,085	-	-	-
(30)		1,045	1,055	1,075	1,085	1,105	1,135	-	-	-
#40(10)	465	1,095	1,105	1,125	1,135	1,155	1,185	1,205	1,255	1,355
(20)		1,195	1,205	1,225	1,235	1,255	1,285	1,305	1,355	1,455
(30)		1,240	1,250	1,270	1,280	1,300	1,330	1,350	1,400	1,500
#50(10)	575	1,110	1,120	1,140	1,150	1,170	1,200	1,220	1,270	1,370
(20)		1,205	1,215	1,235	1,245	1,265	1,295	1,315	1,365	1,465
(30)		1,240	1,250	1,270	1,280	1,300	1,330	1,350	1,400	1,500

Globe Control Valve

with Anti-cavitation & Low Noise Trim

Weight

Body Sub - Assembly

(unit : Kg)

Valve Size (inch)	ANSI Class							
	150~300	600	900	1500	2500	150~600 Welding	900~1500 Welding	2500 Welding
1-1/2	41	41	63	63	63	30	33	33
2	48	48	67	67	71	38	41	41
3	103	103	150	163	182	90	116	121
4	172	172	244	255	303	130	189	214
6	248	264	530	540	-	238	400	-
8	422	443	698	821	-	357	706	-
10	635	681	-	-	-	552	-	-
12	985	1020	-	-	-	960	-	-
14	1230	-	-	-	-	1300	-	-
16	1460	-	-	-	-	1460	-	-
18	1710	-	-	-	-	1710	-	-
20	2500	-	-	-	-	-	-	-

Actuator

(unit : Kg)

Actuator Size	Standard	With Handwheel	
		Top	Side
#25	10	13	15
#29	19	25	27
#37	37	46	49
#48	92	108	112
#55	116	140	145
#55H	120	144	150



Accessories

- * Positioners
 - Smart, E/P, P/P Positioners for Single / Double Acting
- * Instruments Valves
 - Transfer (Trip) Valves, Volume Booster Relay
 - Air Regulators (Air set), Speed Control Valves
- * Limit Switches
- * Solenoid Valves

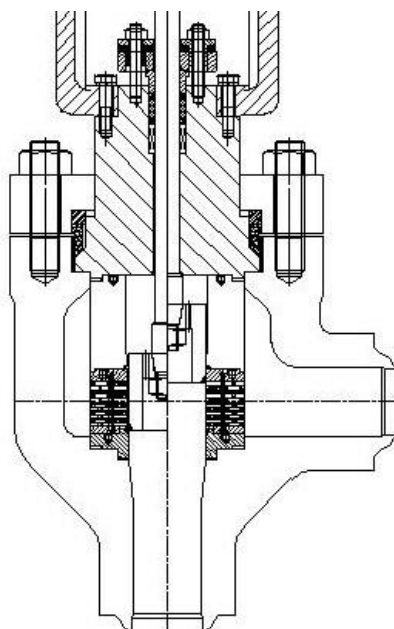
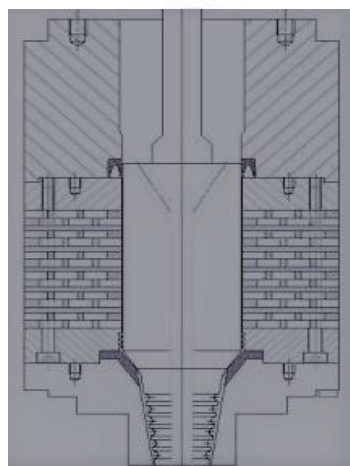
Angle Control Valve

with Anti-cavitation & Low Noise Trim

Trim Design Applications

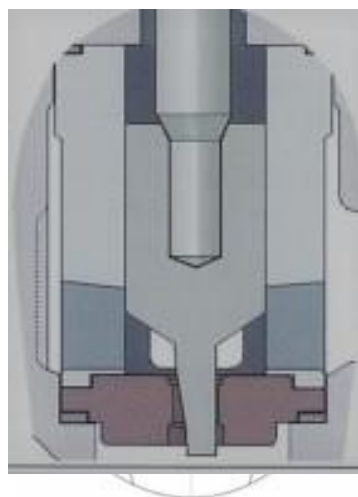
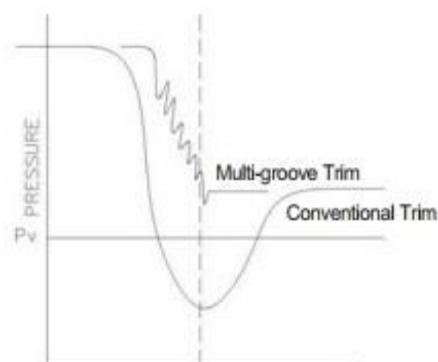
Multi-groove(Cascade) Trim

Multi-groove trim for non-compressible fluid applications is designed for any number of grooves of required pressure drop to meet the specifications for preventing cavitation from occurring and eventual erosion. There are 7~9 Grooves designs available depending on pressure drop and potential for cavitation. The fluid passes through the flow path generated by incorporating angled flats onto the surface of the plug, together with a cut out on the internal surface of the seat. The pressure drop is apportioned across the stages of letdown so that the pressure drop progressively reduces as it passes through the grooves of the trim. This gives excellent resistance to cavitation on high pressure drop applications. For very high pressure drop applications the plug and seat insert would be manufactured from tungsten carbide or advanced glass metallic optionally.



Micro Trim

The micro trim designs a seat guided construction, capable of handling high pressure drops, without instability problems. This trim design has an inherent flow characteristic of Linear or Modified EQ%, and has excellent rangeability. It is an ideal selection for the control of very low flow rates. For very high pressure drop applications, or flows which would potentially cavitation there are multi-stage options of this design(5 stages maximum), and there are also applicable tungsten carbide and advanced glass metallic options for pressure drops greater than 100 bar.



Angle Control Valve

with Anti-cavitation & Low Noise Trim

Body Materials : Carbon Steel or Alloy Steel

Description	Material	Description	Material
1 Body	ASTM A216 Gr-WCB / Alloy Steel available	10 Body Stud	A193 B7
2 Bonnet	ASTM A216 Gr-WCB / Alloy Steel available	11 Body Nut	A194 2H
3 Plug Stem	316 Stainless Steel	12 Body Gasket	316 SST with Grafoil Filler
4 Packing Stud	316/304 Stainless Steel	13 Guide Bushing	Solid Stellite / 440B Stainless Steel
5 Packing Nut	316/304 Stainless Steel	14 Seat Ring Retainer	316/304 Stainless Steel
6 Packing Flange	316/304 Stainless Steel	15 Seat Ring	304 & 316 SST, 316L and Alloy Steel / Soft Seat available
7 Gland	316/304 Stainless Steel	16 Seat Ring Gasket	316 SST with Grafoil Filler
8 Packing	PTFE Carbon Fiber / Graphite / Grafoil + Graphite	17 Plug	304 & 316 SST, 316L and Alloy Steel / Soft Seat available
9 Packing Spacer	316/304 Stainless Steel	18 Plug Stem Pin	316 Stainless Steel
9A Lantern Ring	316/304 Stainless Steel		

Body Materials : Stainless Steel

Description	Material	Description	Material
1 Body	ASTM A351 Gr-CF8 / A351 Gr-CF8M	10 Body Stud	A193 B7
2 Bonnet	ASTM A351 Gr-CF8 / A351 Gr-CF8M	11 Body Nut	A194 2H
3 Plug Stem	316 Stainless Steel	12 Body Gasket	316 SST with Grafoil Filler
4 Packing Stud	316/304 Stainless Steel	13 Guide Bushing	Solid Stellite / 440B Stainless Steel
5 Packing Nut	316/304 Stainless Steel	14 Seat Ring Retainer	316/304 Stainless Steel
6 Packing Flange	316/304 Stainless Steel	15 Seat Ring	304 & 316 SST, 316L and Alloy Steel / Soft Seat available
7 Gland	316/304 Stainless Steel	16 Seat Ring Gasket	316 SST with Grafoil Filler
8 Packing	PTFE Carbon Fiber / Graphite / Grafoil + Graphite	17 Plug	304 & 316 SST, 316L and Alloy Steel / Soft Seat available
9 Packing Spacer	316/304 Stainless Steel	18 Plug Stem Pin	316 Stainless Steel
9A Lantern Ring	316/304 Stainless Steel		

Angle Control Valve

with Anti-cavitation & Low Noise Trim

Flow Coefficients - Rated Cv

Valve Size (inch)	Travel (mm)	Nominal Trim Size (inch)													
		1/4	3/8	1/2	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6	8	10
1/2	20	1.9	4.0	7.0											
3/4	20	1.9	4.0	7.0	14										
1	20	1.9	4.0	7.0	14										
1-1/2	20	1.9	4.0	7.0	15	20	28								
2	30	1.9	4.0	7.0	17	21	28	52							
3	40					22	34	53	76	118					
4	40						35	55	78	122	205				
6	50							58	85	134	216	315	420		
8	50									140	230	330	435		
	70													695	
10	50										233	345	454		
	70													715	1220

The Cv values shown in our catalogue are for reference only.

Multi-hole 1-stage

Valve Size (inch)	Travel (mm)	Nominal Trim Size (inch)									
		1/4	1-1/2	2	2-1/2	3	4	5	6	8	10
3/4, 1	20	9									
1-1/2	20	9	16								
2	30		19	22							
3	40			28	32	76					
4	40					76	105				
6	50							160	210		
8	70									340	
10	70										540

This trim will be applicable only Quick Change, Linear Flow Characteristics.

Multi-Groove Trim (Cascade)

Valve Size (inch)	Travel (mm)	Nominal Trim No.						
		A	B	C	D	E	F	G
3/4, 1 1-1/2, 2	30	0.4	0.8	1.25	3.0	6.0	10.0	16.0

This trim will be applicable only Quick Change, Linear Flow Characteristics.

Micro Trim (Mini Flow Trim)

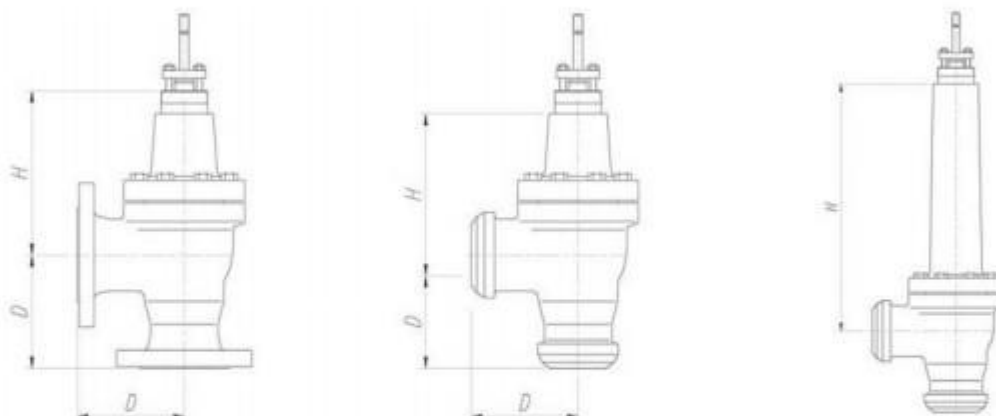
Valve Size (inch)	Travel (mm)	Nominal Trim No.							
		1	2	3	4	5	6	7	8
3/4, 1 1-1/2, 2	30	0.001	0.004	0.008	0.025	0.11	0.3	0.6	1.0

This trim will be applicable only Quick Change, Linear and/or Modified% Flow Characteristics.

Angle Control Valve

with Anti-cavitation & Low Noise Trim

Dimensions



ANSI Class 150~600

(unit : mm)

Valve Size (inch)	A							D			H				
	ANSI Class 150~600		ANSI Class 150		ANSI Class 300		ANSI Class 600		ANSI Class 150	ANSI Class 300	ANSI Class 600	ANSI Class 150~300		ANSI Class 600	
	Thr'd SW, BW	RF	RTJ	RF	RTJ	RF	RTJ	Standard Bonnet				Extension Bonnet	Standard Bonnet	Extension Bonnet	
1/2	210	184	-	190	203	203	203	92	95	102	160	295	160	295	
3/4	210	184	-	194	206	206	206	92	97	103	160	295	160	295	
1	210	184	197	197	210	210	210	92	99	105	160	295	160	295	
1-1/2	251	222	235	235	248	251	251	111	118	126	160	295	160	295	
2	286	254	267	267	283	286	289	127	134	143	160	295	160	295	
3	337	298	311	317	333	337	340	149	159	169	210	330	240	340	
4	394	352	365	368	384	394	397	176	184	197	210	330	275	375	
6	508	451	464	473	489	508	511	226	237	254	290	430	325	450	
8	610	543	556	568	584	610	613	272	284	305	430	585	430	585	
10	752	673	686	708	724	752	755	337	354	376	470	635	480	645	

ANSI Class 900~2500

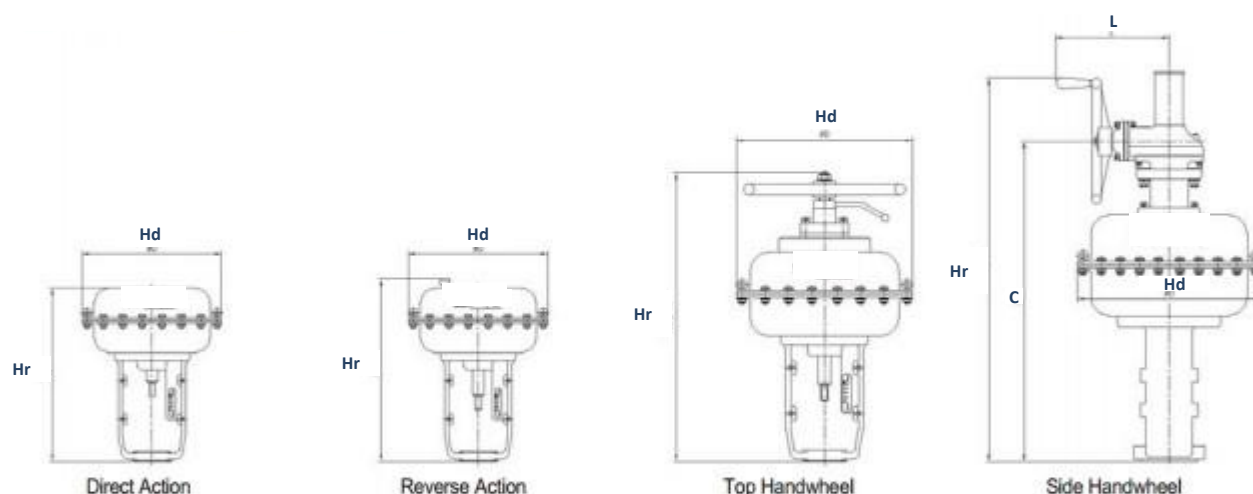
(unit : mm)

Valve Size (inch)	A								D		H			
	ANSI Class 900, 1500 SW,BW	ANSI Class 2500 SW,BW	ANSI Class 900		ANSI Class 1500		ANSI Class 2500		ANSI Class 900 ~1500	ANSI Class 2500	ANSI Class 900~1500		ANSI Class 2500	
			RF	RTJ	RF	RTJ	RF	RTJ			Standard Bonnet	Extension Bonnet	Standard Bonnet	Extension Bonnet
3/4	248	292	242	242	242	242	286	286	124	146	200	305	240	340
1	292	318	292	292	292	292	318	318	146	159	185	300	185	300
1-1/2	333	359	333	333	333	333	359	362	167	180	185	300	185	300
2	311	393	311	314	311	314	393	397	156	197	235	335	295	400
3	406	527	387	390	406	409	527	533	203	264	295	400	365	469
4	483	635	464	467	483	486	635	645	242	318	355	465	445	560
6	610	762	556	559	610	616	762	775	305	381	435	580	525	675

Angle Control Valve

with Anti-cavitation & Low Noise Trim

Actuators and Handwheels



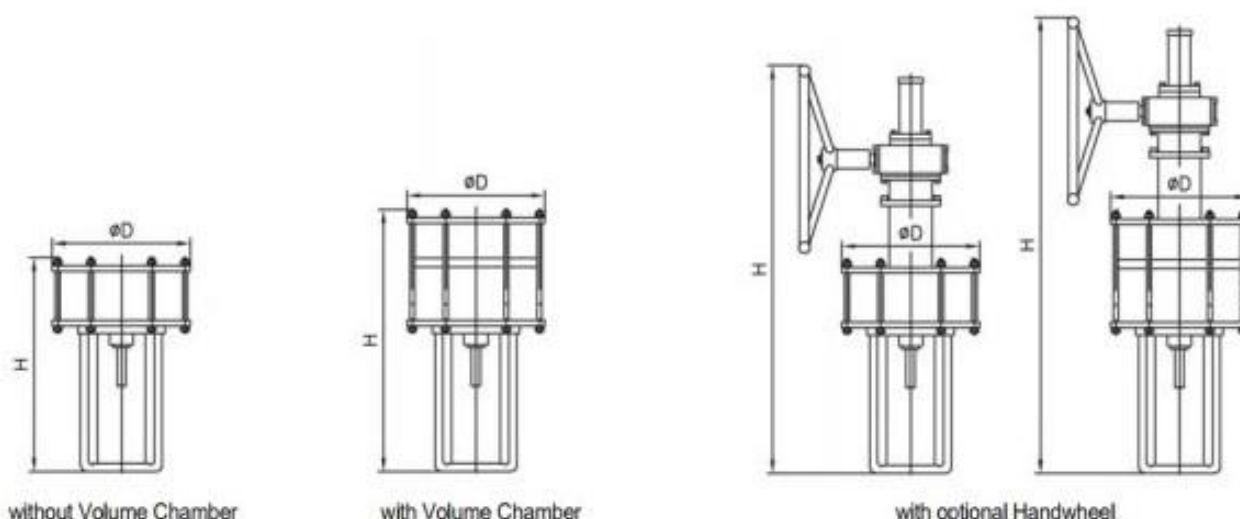
Dimensions

(unit : mm)

Actuator Size	D	Without Handwheel		Handwheel Type	With Handwheel			
		DA	RA		DA	RA	C	L
		Hd	Hr		Hd	Hr		
#25	250	332	352	Top	450	473	-	-
#29	290	369	419	Top	534	569	-	-
#37	370	410	460	Top	575	620	-	-
#48	480	629	679	Side	979	979	779	260
#55	550	678	728	Side	1,098	1,098	848	300
#55H	550	728	778	Side	1,148	1,148	848	300

Angle Control Valve

with Anti-cavitation & Low Noise Trim



Dimensions

Actuator Size	D	H								
		Travel (mm)								
		40	50	70	80	100	130	150	200	300
Without Volume Chamber										
#30	375	510	520	540	550	570	600	-	-	-
#40	465	585	595	615	625	645	675	695	745	845
#50	575	605	615	635	645	665	695	715	765	865
With Volume Chamber (Chamber Capacity)										
#30(10)	375	635	645	665	675	695	725	-	-	-
(20)		735	745	765	775	795	825	-	-	-
(30)		785	795	815	825	845	875	-	-	-
#40(10)	465	715	725	745	755	775	805	825	875	975
(20)		815	825	845	855	875	905	925	975	1,075
(30)		860	870	890	900	920	950	970	1,020	1,120
#50(10)	575	730	740	760	770	790	820	840	890	990
(20)		825	835	855	865	885	915	935	985	1,085
(30)		860	870	890	900	920	950	970	1,020	1,120
with Handwheel - Without Volume Chamber										
#30	375	770	780	800	810	830	860	-	-	-
#40	465	965	975	995	1,005	1,025	1,055	1,075	1,125	1,225
#50	575	985	995	1,015	1,025	1,045	1,075	1,095	1,145	1,245
with Handwheel and Volume Chamber (Chamber Capacity)										
#30(10)	375	895	905	925	935	955	985	-	-	-
(20)		995	1,005	1,025	1,035	1,055	1,085	-	-	-
(30)		1,045	1,055	1,075	1,085	1,105	1,135	-	-	-
#40(10)	465	1,095	1,105	1,125	1,135	1,155	1,185	1,205	1,255	1,355
(20)		1,195	1,205	1,225	1,235	1,255	1,285	1,305	1,355	1,455
(30)		1,240	1,250	1,270	1,280	1,300	1,330	1,350	1,400	1,500
#50(10)	575	1,110	1,120	1,140	1,150	1,170	1,200	1,220	1,270	1,370
(20)		1,205	1,215	1,235	1,245	1,265	1,295	1,315	1,365	1,465
(30)		1,240	1,250	1,270	1,280	1,300	1,330	1,350	1,400	1,500

Angle Control Valve

with Anti-cavitation & Low Noise Trim

Weight

Body Sub - Assembly

(unit : Kg)

Valve Size (inch)	ANSI Class							
	150~300	600	900	1500	2500	150~600 Welding	900~1500 Welding	2500 Welding
3/4-1	20	20	44	44	44	18	40	40
1-1/2	27	27	27	58	58	25	53	53
2	32	32	70	70	120	30	63	115
3	62	62	130	130	250	58	110	240
4	89	89	207	207	421	94	209	411
6	164	210	397	475	850	202	387	465
8	323	415	-	-	-	405	-	-
10	492	620	-	-	-	480	-	-

Actuator

(unit : Kg)

Actuator Size	Standard	With Handwheel	
		Top	Side
#25	10	13	15
#29	19	25	27
#37	37	46	49
#48	92	108	112
#55	116	140	145
#55H	120	144	150



Accessories

- * Positioners
 - Smart, E/P, P/P Positioners for Single / Double Acting
- * Instruments Valves
 - Transfer (Trip) Valves, Volume Booster Relay
 - Air Regulators (Air set), Speed Control Valves
- * Limit Switches
- * Solenoid Valves

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V I V
Value in Valve