CONTROL VALVES

arflu
INDUSTRIAL VALVES

REV.3 - MARCH 2017

PETROCHEMICAL
DIVISION

CONTROL VALVES

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INDUSTRIAL VALVES

OCTOBER 2017

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Absolute Regulation of Fluids

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G GAS DIVISION
E ENERGY DIVISION
M MARINE DIVISION

CONTROL VALVES

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PWGEM

PETROCHEMICAL DIVISION

We are pleased to present you our company which, since its foundation more than 25 years ago, is dedicated to the production of high quality valves. Since 1988 we have been manufacturing all kind of valves mainly for petrochemical, energy, gas, marine services and water and we are proud to manufacture our valves under our brand ARFLU.

ARFLU 's quality guarantee system as well as all its processes and procedures, both technical ones regarding products and in the organization of the company are certified according to the UNE-EN ISO 9001 standard. In addition ARFLU is certified according to H module of 2014/68/EU of the EU. Though this certification is extremely important for our company, it must be said that the best certification and guaranty we can offer is the fact that our customers are placing their confidence in ARFLU products day by day. Living in a world of technology and communications as it is today, in ARFLU we try to keep at the forefront of industry. ARFLU owns the latest and most powerful informatic technology systems in order to have our whole organization perfectly communicated and to be in constant contact with customers worldwide. ARFLU is one of the most qualified companies in its field. We develop tailor made solutions as well as we provide customized advice and training for our clients.

flu

QUALITY:

This point is the cornerstone of our company philosophy and a key to our global competitiveness.

The complete Arflu team is trained in quality processes to ensure that customers, no matter where they are located, receive consistent and excellent quality in our products and services.

Our valves are characterized by their high quality, guaranteed through testing one by one, each with an individual number for complete traceability.

Our test benches and laboratory facilities are provided with equipment to realize examinations of all kinds like hydrostatic and pneumatic pressure test, thickness verification, fugitive emission test and all types of non-destructive examinations.

THE QUALITY POLICY

ARFLU, S.A. Management has implemented and maintains a system of quality management based on the requirements of the UNE-EN-ISO 9001 (2015) : ``Quality management system Requirements´´ for manufacturing activities of valves for fluid control.

The Quality management system's aim is to achieve Arflu´s customer satisfaction by complying with all requirements, specified by both the client and legal or regulatory requirements as well as the necessary ones to assure the effectiveness of the manufacture.
Therefore ARFLU , S.A management promises to fulfil the following general targets:

- Managing quality of services provided, according to International Standard ISO 9001 (2015).
- Compliance with the requirements agreed with our customers (product specifications, delivery, agreed price, etc.), strengthening their confidence in our organization.
- Compliance with other requirements: legal requirements and implicit requirements to ensure adequacy of services provided to customer needs
- Continuous improvement of the efficiency of quality management.

The Quality Policy is spread to the whole personnel through training seminars and by distribution of controlled copies of the present document. In addition, another controlled copy is placed in the bulletin board of ARFLU, S.A. By this means, ARFLU, S.A ensures that the Quality Policy is understood by the whole personnel of the company.

The review of the Quality Policy, as well as the establishment and review of specific and quantified quality targets, is carried out by the management during system review.

CONTROL VALVES

GENERAL CONSIDERATIONS:

ARFLU Cage guided valves have been designed for sizes up to 26" and pressure class ratings, depending on sizes, up to Class 2500 . They feature unbalanced plug for sizes up to 4" and balanced plug for sizes 2" and larger. Leakage, class IV and V are offered as STD using metal seats construction. In addition, leakage class VI (bubble tight) can be supplied as an option if temperature does not exceed 250°C (482°F).

The use of balanced plugs eliminates the need for oversized actuators, thus reducing weight and cost. Body can be straight or angle type, two or three ways. Bellows sealed or other special bonnets are also included in this versatile range of valves. They have been designed to be operated by pneumatic, electric or electrohydraulic actuators, including any type of accessories, and accepting any type of control signals. When electric actuators/accessories are used, all kind of protections can be given, including explosion proof or intrinsec safety.

Special designs have been developed, mainly for use in power plants where high pressure and high temperature are usual conditions. They have been used successfully in power plants, gas, oil, fertilizers and other process industries. Noise and vibration have been reduced, and valve internals life have been extended as well.

Low noise trims and diffusers can be supplied as an integral part of our design. Downstream plates or diffusers can be combined to give further noise reduction, while improving valve performance. ARFLU Control valves offer the best combination of design and materials to cope with the most severe operating conditions.

FEATURES OF ARFLU GLOBE CONTROL VALVES:

TRIM DESIGN

The main function of a control valve is varying the flow rate of the fluid by producing a pressure drop.

This results in an energy loss which is converted into turbulence and, as side effects, into vibration, noise and erosion. When handling high temperature water, cavitation is an added problem. To minimize wearing and provide long life internals, selection of the best suited type of trim has the upmost importance. Also, the correct materials have to be used.

Noise and cavitation problems are solved with special designs of internals. Arflu has the designs, the materials and the experience to offer the best choice for every application.

VALVE BODY AND BONNET

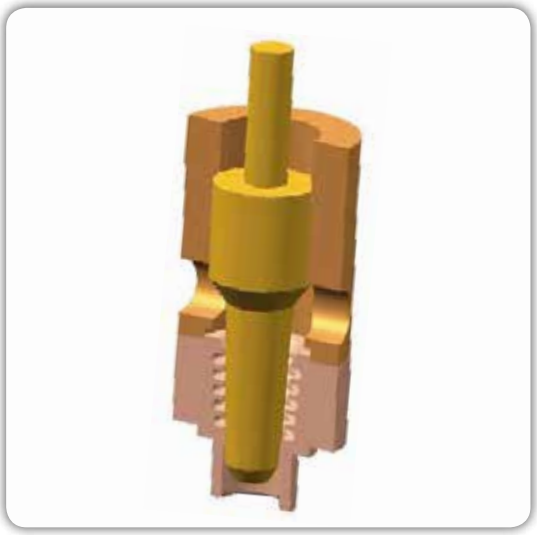
Pressure retaining parts include body, bonnet and bolting. Design is according to and meets all the ANSI, ASME and DIN applicable standards.

Face to face dimensions are according to ISA S75.12, 15 and 16. Sealing of body-bonnet joint is achieved by spiral gaskets made from 316SS and graphite as standard.

Gaskets are fully enclosed between the body and bonnet and they work under the principle of controlled compression. To achieve this, manufacturing / maintenance procedures provide the correct torques for every size of the bolting.

PLUGS & CAGES
FOR GLOBE CONTROL

DELTA PLUG

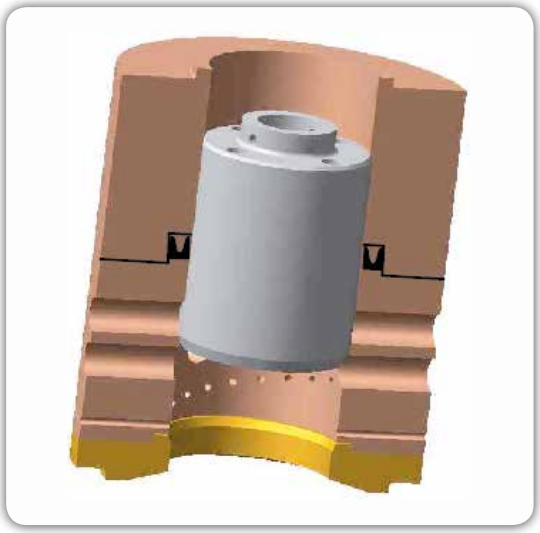


Specially designed for low and medium flows combined with medium to high pressure drops, or when high range is required. DELTA PLUG features a series of labyrinth grooves, machined into the seat ring along its throttling surface. They provide a stepping effect, so that pressure drop is divided among the grooves. This design reduces the amount of inner valve pressure recovery, and subsequent steam formation.

APPLICATIONS

- High pressure desuperheater cooling water control.
- Supercritical boiler start-up.
- Reheat and superheat spray control.
- Pump recirculation or by-pass in small size boiler.

STD OR LNC CAGE



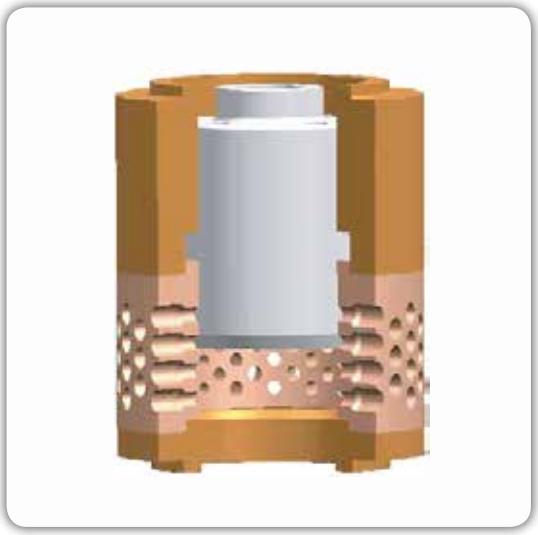
STD cage is a hole pattern drilled cage, which provides thotrough range with low cost cage design, thus reducing trim prices. LNC cage adds excellent noise reduction features to the characteristics of STD cage. Both designs can be used with balanced plug (up to 250 °C) and unbalanced plug (up to 550 °C). Space of the holes is carefully controlled in order to restrain jet interaction and its associated turbulence, reducing noise levels to a minimum when used in gas service. LNC trim offers some of the advantages of multistage trims as well, preventing the damaging effects of cavitation and flashing in liquid service.

APPLICATIONS

- Low and medium pressure drop.
- Tight shut off.
- Low noise, with LNC cage.
- Modulating and on/off control.
- Small actuators.
- General purpose applications.

CAVOID CAGE

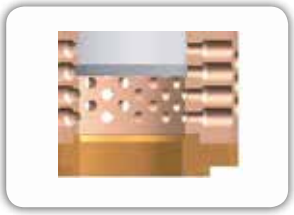
The CAVOID cage has been designed mainly for liquid service where low level cavitation exists. The cage features double drilled radial holes which provide a nozzle effect. Each nozzle is diametrically opposed by an identical nozzle. This design controls the position of the vena contracta, and directs the collapsing bubbles into the center of the cage, far away from the plug and cage wall.



CAVOID CAGE does not eliminate cavitation, but reduces its effects upon valve components, and its associated noise, vibration and erosion. The cage guided balanced plug design provides stable operation during valve throttling, in addition to tight shut-off capability.

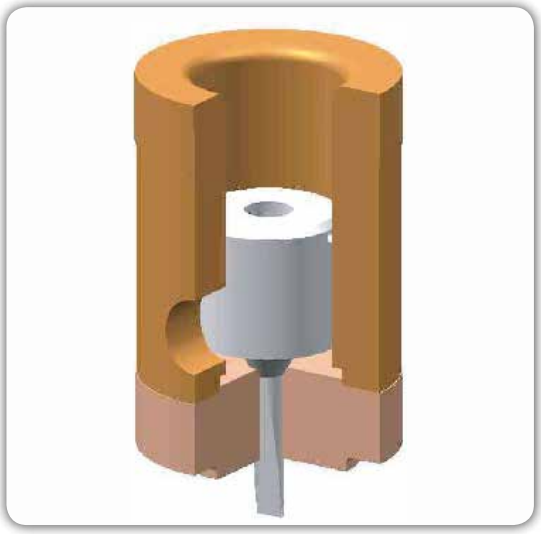
APPLICATIONS

- Medium and large flows.
- Cavitating and flashing service.
- Feedwater systems.
- Condensed systems, (deaerator level control, drain services, etc.).
- Condensed recirculation systems



MINI TRIM

The MINITRIM design is the most reasonable solution where very low flow rates are involved in control applications. Although a modified equal percentage characteristic is supplied as a standard, other characteristics (linear, equal percentage, tailored) are available to fit customer needs.



Made with hard materials, this internal can withstand the erosion caused by high velocity fluid flow for years.

APPLICATIONS

- Very low flows.
- Tight shut-off.
- Modulating and on/off applications

MULTICYLINDER CAGE

The MULTICYLINDER divides the pressure drop in several stages. This feature is used in liquid service to eliminate cavitation, and in gas service to reduce noise to ac ceptable levels. Associated problems of vibration, excessive leakage and mechanical failure are thus prevented.

APPLICATIONS

- High pressure drop.
- Large flows.
- Very critical pressure drop steam or gas applications.
- Very high pressure drop liquid applications for preventing cavitation and trim erosion damage.

DOUBLE TRIM

DOUBLE trim is specially designed for large size valves (4" and above), to give tight shut-off with balanced trim at high temperatures. It can be combined with STD or LNC cages, with flow direction from over the seat. DOUBLE trim permits minimum actuator size when tight shut-off is required.

APPLICATIONS

- High temperature service.
- Medium and large flows.
- Tight shut-off.
- Low noise (with LDB cage).
- HP and LP turbine bypass.
- Steam dump.
- Steam throttling to atmosphere or to a condenser.
- Isolation.
- Super-critical boiler start-up.

FLOW COEFFICIENT Cv AT MAXIMUM TRAVEL

CAGE CHARACTERIZED

FLOW CHARACT.	TRIM SIZE	3/4	1	1 1/2	2	3	4	6	8	10	12	14	16
STD	Full Size	12	17	30	54	122	216	490	864	1350	1950	2650	3460
	1 reduction	8	11	21	38	85	150	343	605	945	1365	1855	2420
	2 reduction	6	8	14	24	55	100	220	390	610	880	1190	1560
LINEAR EQUAL % LINEAR	Full Size	9	14	23	40	90	160	360	640	1000	1440	1960	2560
	1 reduction	6	9	16	28	63	112	252	450	700	1010	1370	1790
	2 reduction	4	6	10	18	41	72	162	290	450	650	880	1150
LNC	Full Size	11	15	27	49	110	195	440	780	1215	1750	2380	3110
	1 reduction	7	10	19	34	77	137	310	540	850	1225	1670	2175
	2 reduction	5	7	12	22	50	88	200	350	550	790	1070	1400
LINEAR EQUAL % LINEAR	Full Size	8	12	20	36	81	144	325	580	900	1300	1760	2300
	1 reduction	5	8	14	25	57	100	230	405	630	910	1230	1610
	2 reduction	3	5	9	16	36	65	146	260	405	585	790	1035
CAVOID TRIM	Full Size	/	/	/	35	78	110	245	490	717	1265	1754	2372
	1 reduction	/	/	/	25	53	74	162	318	457	776	1084	1458
	2 reduction	/	/	/	14	31	38	100	198	287	484	676	920

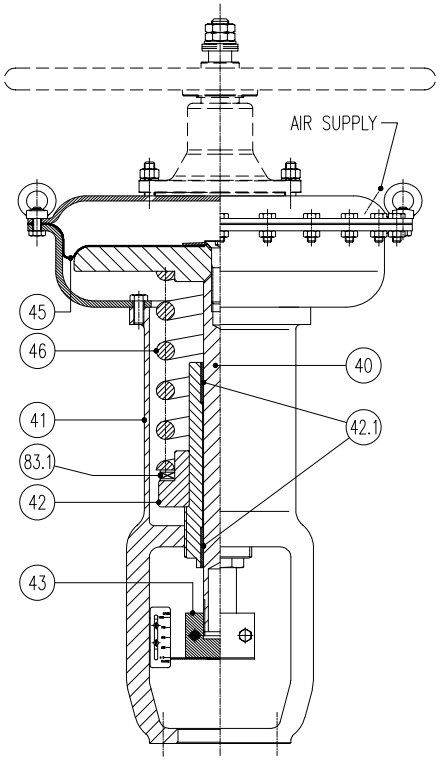
DELTA PLUG CHARACTERIZED

FLOW CHARACTERISTIC	TRIM SIZE	3/4	1	1 1/2	2
EQUAL %	Full Size	3.5	5.4	8.2	14.4
	1 reduction	2.2	3.5	5.4	8.2
	2 reduction	1.4	2.2	3.5	5.4
	3 reduction	0.86	1.4	2.2	3.5
	4 reduction	0.61	0.86	1.4	2.2
	5 reduction	0.33	0.61	0.86	1.4
MODIFIED EQUAL %	Full Size	3.4	5.3	8.1	14.3
	1 reduction	2.1	3.4	5.3	8.1
	2 reduction	1.3	2.1	3.4	5.3
	3 reduction	0.82	1.3	2.1	3.4
	4 reduction	0.54	0.82	1.3	2.1
	5 reduction	0.31	0.54	0.82	1.3

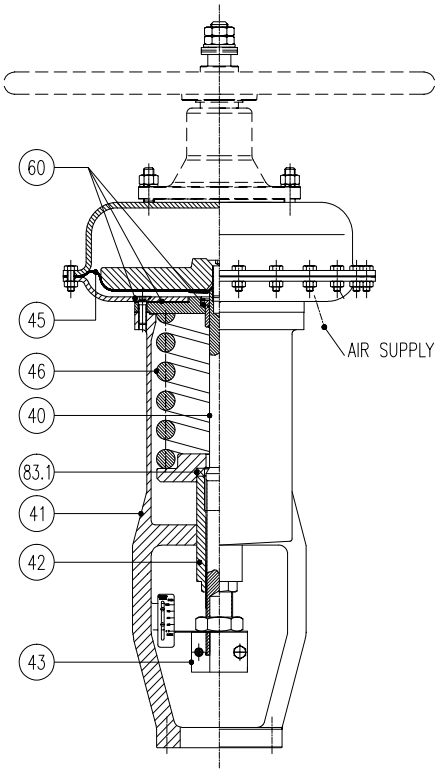
MINITRIM

NUMBER	0	1	2	3	4	5	6	7	8
Cv	0.02	0.03	0.06	0.12	0.24	0.48	0.96	1.92	3.85

ACTUATORS



Direct Acting Actuator



Reverse Acting Actuator

REF	QTY.	SPARE PART	DESCRIPTION	MATERIAL
40	1		Actuator stem	Stainless steel
41	1		Yoke	A 536 Gr. 60-40-18
42	1		Spring adjustor	Bronze
42.1	2		Guide bushing	Carbon steel + PTFE
43	1		Stem connector assembly	F-114
45	1	x	Diaphragm	BUNA-N
46	1	x	Spring	F-143
60	1		Actuator sealing kit	BUNA-N
83.1	1		Spring adjustor needle bearing	Commercial

** The valve is fully closed at 0% travel and fully open at 100% travel.*

DIRECT ACTING

Technical Data

In a direct acting actuator, air supply is used to extend the actuator stem downwards, closing the valve (the valve is fully closed at 0% travel).

Spring force is always opposed to air action. Without air supply, the spring retracts the actuator stem upwards, opening the valve (the valve is fully open at 100% travel). Maximum air supply for **ARF 300 series** is 80 psig (5.5 barg).

Each model can be fitted with two different springs, to suit force requirements.

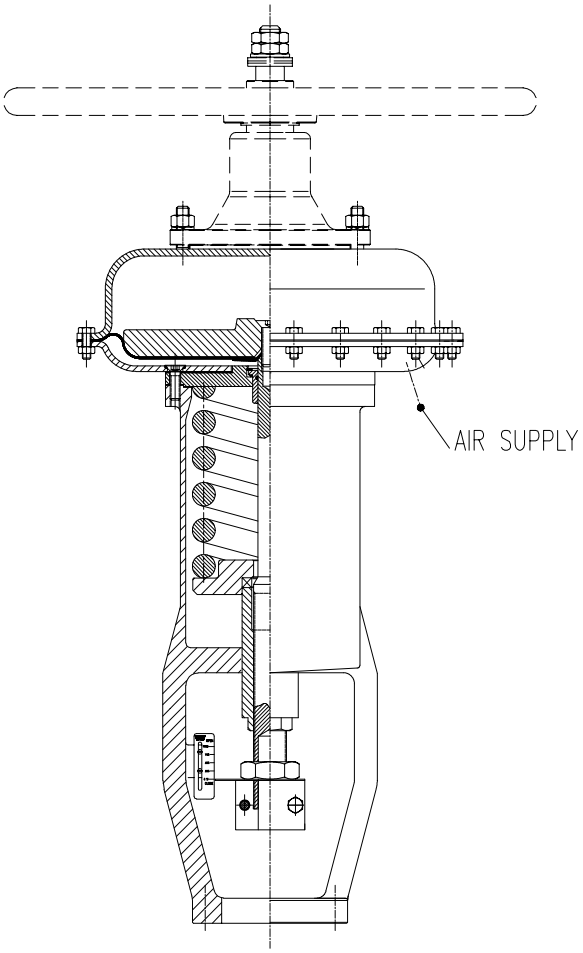
				Actuator force, lbf			
				Downwards, air supply = 80 psig		Downwards, air supply = 80 psig	
Model	Diaphragm area, in²	Max. travel, in	Spring Model	Travel 0%	Travel 100%	Travel 0%	Travel 100%
ARF 320D	40	1	3-15	2600	3080	600	120
			6-30	200	2960	1200	240
ARF 330D	60	1	3-15	3900	4620	900	180
			6-30	3000	4440	1800	360
ARF 350D	100	2	3-15	6500	7700	1500	300
			6-30	5000	7400	3000	600
ARF 380D	160	3	3-15	10400	12320	2400	480
			6-30	8000	11840	4800	960
ARF 390D	160	5	3-15	10400	12320	2400	480
			6-30	8000	11840	4800	960

				Actuator force, N			
				Downwards, air supply = 5.5 barg		Downwards, air supply = 5.5 barg	
Model	Diaphragm area, cm²	Max. travel, mm	Spring Model	Travel 0%	Travel 100%	Travel 0%	Travel 100%
ARF 320D	258	26	3-15	11570	13706	2670	534
			6-30	8900	13172	5340	1068
ARF 330D	387	26	3-15	17355	20559	4005	801
			6-30	13350	19758	8010	1602
ARF 350D	645	51	3-15	28925	34265	6675	1335
			6-30	22250	32930	13350	2670
ARF 380D	1032	76	3-15	46280	54824	10680	2136
			6-30	35600	52688	21360	4272
ARF 390D	1032	76	3-15	46280	54824	10680	2136
			6-30	35600	52688	21360	4272

** The valve is fully closed at 0% travel and fully open at 100% travel.*

REVERSE ACTING

Technical Data



In a reverse acting actuator, air supply is used to retract the actuator stem upwards, opening the valve (the valve is fully open at 100% travel).

Spring force is always opposed to air action. Without air supply, the spring extends the actuator stem downwards, closing the valve (the valve is fully closed at 0% travel).

Maximum air supply for Arflu diaphragm **ARF 300 series** is 80 psig (5.5 barg).

Each model can be fitted with three different springs, to suit force requirements.

Model	Diaphragm area, in²	Max. travel, in	Spring Model	Actuator force, lbf			
				Downwards, air supply = 0 psig		Downwards, air supply = 80 psig	
				Travel 0%	Travel 100%	Travel 0%	Travel 100%
ARF 320R	40	1	3-15	120	600	3080	2600
			6-30	240	1200	2960	2000
			20-40	800	1600	2400	1600
ARF 330R	60	1	3-15	180	900	4620	3900
			6-30	360	1800	4440	3000
			20-40	1200	2400	3600	2400
ARF 350R	100	2	3-15	300	1500	7700	6500
			6-30	600	3000	7400	5000
			20-40	2000	4000	6000	4000
ARF 380R	160	3	3-15	480	2400	12320	10400
			6-30	960	4800	11840	8000
			15-45	2400	7200	10400	5600
ARF 390R	160	5	3-15	480	2400	12320	10400
			6-30	960	4800	11840	8000
			13-41	2080	6560	10720	6240

** The valve is fully closed at 0% travel and fully open at 100% travel.*

Model	Diaphragm area, cm²	Max. travel, mm	Spring Model	Actuator force, N			
				Downwards, air supply = 0 psig		Downwards, air supply = 80 psig	
				Travel 0%	Travel 100%	Travel 0%	Travel 100%
ARF 320R	258	26	3-15	534	2670	13706	11570
			6-30	1068	5340	13172	8900
			20-40	3560	7120	10680	7120
ARF 330R	387	26	3-15	801	4005	20559	17355
			6-30	1602	8010	19758	13350
			20-40	5340	10680	16020	10680
ARF 350R	645	51	3-15	1335	6675	34265	28925
			6-30	2670	13350	32930	22250
			20-40	8900	17800	26700	17800
ARF 380R	1032	76	3-15	2136	10680	54824	46280
			6-30	4272	21360	52688	35600
			15-45	10680	32040	46280	24920
ARF 390R	1032	127	3-15	2136	10680	54824	46280
			6-30	4272	21360	52688	35600
			13-41	9256	29192	47704	27768

** The valve is fully closed at 0% travel and fully open at 100% travel.*

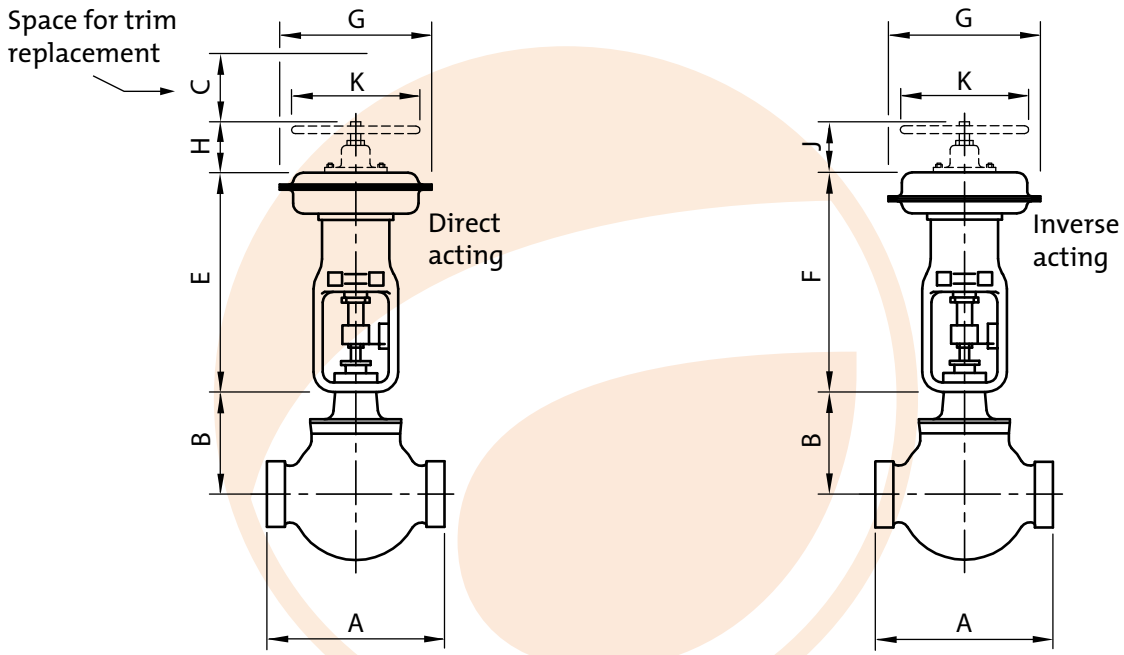
Globe Control Valve

BW, SW & THREADED BODY

COD. AGC-1000

PETROCHEMICAL & ENERGY DIVISION

GLOBE CONTROL VALVE **CLASS 150 3/4" TO 16"**



CLASS 150

SIZE	A	B	C
(inch)	(mm)	(mm)	(mm)
3/4"	187	217	100
1"	187	217	100
1 1/2"	222	217	100
2"	254	217	100
3"	318	282	125
4"	318	320	150
6"	451	392	200
8"	543	457	250
10"	673	572	350
12"	737	630	400
14"	851	689	450
16"	1016	759	500

PNEUMATIC ACTUATOR DIM.

MODEL	E	F	G	K	H	J
ARF330	462	500	292	254	152	165
ARF350	594	719	384	457	273	267
ARF380	764	781	457	457	273	292
ARF390	835	889	457	457	245	298

*** From 3/4" to 2" SW & THREADED BODY**

*** From 1 1/2" to 16" BW**

NOTE - Dimensions are for information only. Certified dimensional drawings are available upon request.

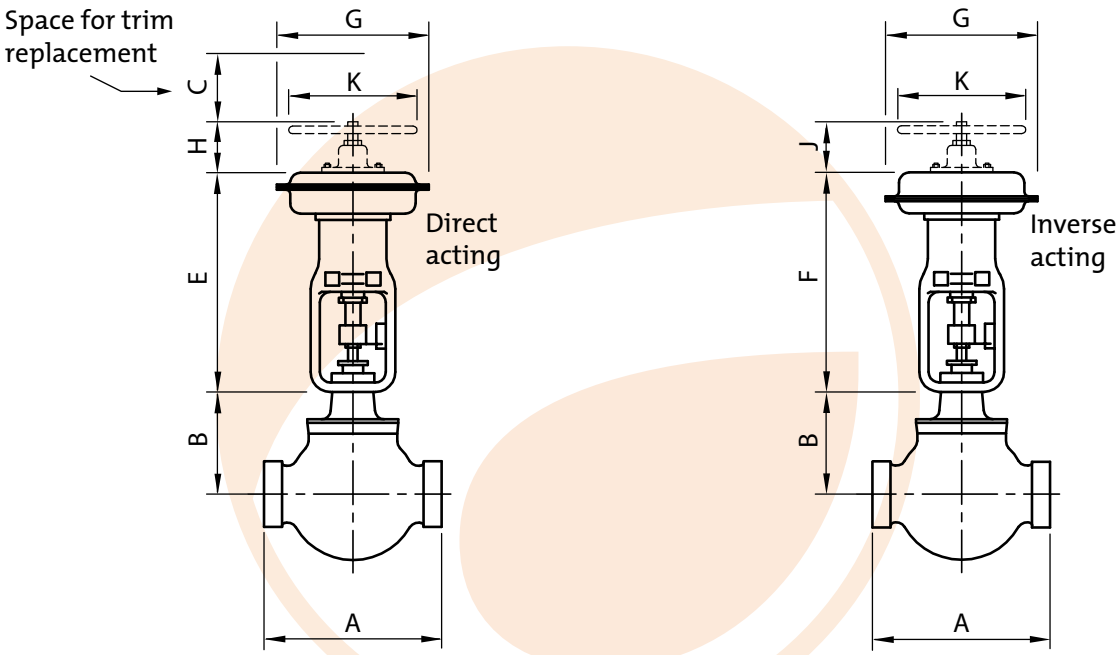
Globe Control Valve

BW, SW & THREADED BODY

COD. AGC-3000

PETROCHEMICAL & ENERGY DIVISION

GLOBE CONTROL VALVE **CLASS 300 3/4" TO 16"**



CLASS 300

SIZE	A	B	C
(inch)	(mm)	(mm)	(mm)
3/4"	187	217	100
1"	187	217	100
1 1/2"	222	217	100
2"	254	217	100
3"	318	282	125
4"	318	320	150
6"	451	392	200
8"	543	457	250
10"	673	572	350
12"	737	630	400
14"	851	689	450
16"	1016	759	500

PNEUMATIC ACTUATOR DIM.

MODEL	E	F	G	K	H	J
ARF330	462	500	292	254	152	165
ARF350	594	719	384	457	273	267
ARF380	764	781	457	457	273	292
ARF390	835	889	457	457	245	298

*** From 3/4" to 2" SW & THREADED BODY**

*** From 1 1/2" to 16" BW**

NOTE - Dimensions are for information only. Certified dimensional drawings are available upon request.

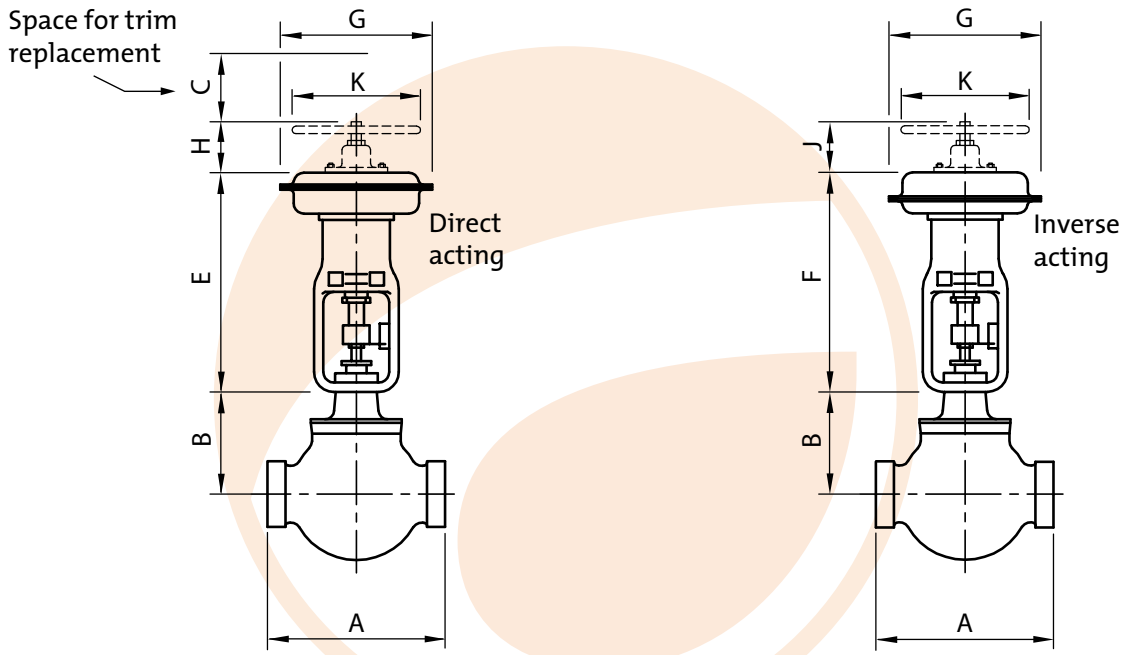
Globe Control Valve

BW, SW & THREADED BODY

COD. AGC-9000

PETROCHEMICAL & ENERGY DIVISION

GLOBE CONTROL VALVE **CLASS 600 3/4" TO 16"**



CLASS 600

SIZE	A	B	C
(inch)	(mm)	(mm)	(mm)
3/4"	187	217	100
1"	187	217	100
1 1/2"	222	217	100
2"	254	217	100
3"	318	282	125
4"	318	320	150
6"	451	392	200
8"	543	457	250
10"	673	572	350
12"	737	630	400
14"	851	689	450
16"	1016	759	500

PNEUMATIC ACTUATOR DIM.

MODEL	E	F	G	K	H	J
ARF330	462	500	292	254	152	165
ARF350	594	719	384	457	273	267
ARF380	764	781	457	457	273	292
ARF390	835	889	457	457	245	298

*** From 3/4" to 2" SW & THREADED BODY**

*** From 1 1/2" to 16" BW**

NOTE - Dimensions are for information only. Certified dimensional drawings are available upon request.

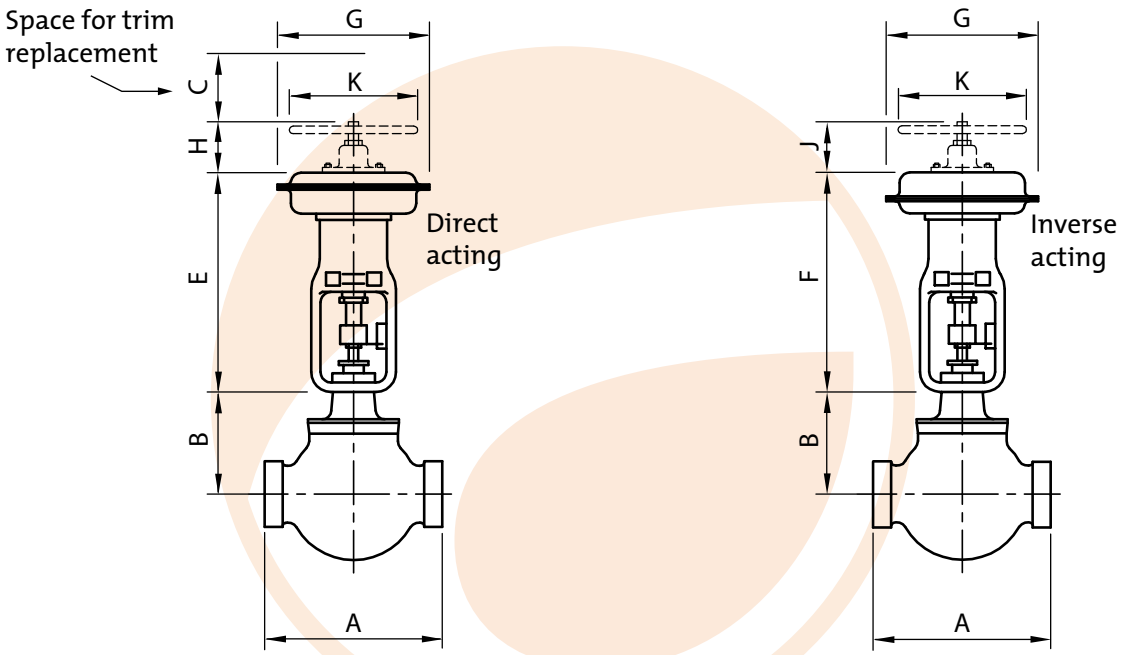
Globe Control Valve

BW, SW & THREADED BODY

COD. AGC-9000

PETROCHEMICAL & ENERGY DIVISION

GLOBE CONTROL VALVE **CLASS 900 3/4" TO 16"**



CLASS 900

SIZE	A	B	C
(inch)	(mm)	(mm)	(mm)
3/4"	194	217	100
1"	194	217	100
1 1/2"	235	217	100
2"	292	217	100
3"	318	282	125
4"	318	320	150
6"	508	392	200
8"	610	457	250
10"	762	572	350
12"	914	630	400
14"	1064	689	450
16"	1114	759	500

PNEUMATIC ACTUATOR DIM.

MODEL	E	F	G	K	H	J
ARF330	462	500	292	254	152	165
ARF350	594	719	384	457	273	267
ARF380	764	781	457	457	273	292
ARF390	835	889	457	457	245	298

*** From 3/4" to 2" SW & THREADED BODY**

*** From 1 1/2" to 16" BW**

NOTE - Dimensions are for information only. Certified dimensional drawings are available upon request.

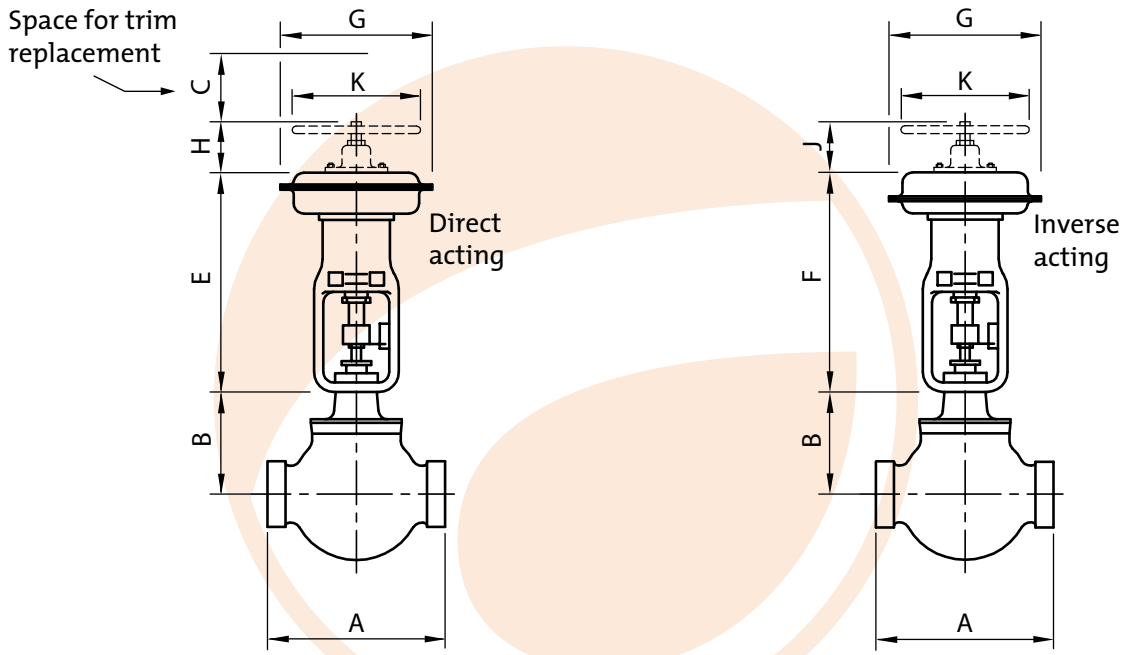
Globe Control Valve

BW, SW & THREADED BODY

COD. AGC-4000

PETROCHEMICAL & ENERGY DIVISION

GLOBE CONTROL VALVE **CLASS 1500 3/4" TO 16"**



CLASS 1500

SIZE	A	B	C
(inch)	(mm)	(mm)	(mm)
3/4"	194	217	100
1"	194	217	100
1 1/2"	235	217	100
2"	292	217	100
3"	318	282	125
4"	318	320	150
6"	508	392	200
8"	610	457	250
10"	762	572	350
12"	914	630	400
14"	1064	689	450
16"	1114	759	500

PNEUMATIC ACTUATOR DIM.

MODEL	E	F	G	K	H	J
ARF330	462	500	292	254	152	165
ARF350	594	719	384	457	273	267
ARF380	764	781	457	457	273	292
ARF390	835	889	457	457	245	298

*** From 3/4" to 2" SW & THREADED BODY**

*** From 1 1/2" to 16" BW**

NOTE - Dimensions are for information only. Certified dimensional drawings are available upon request.

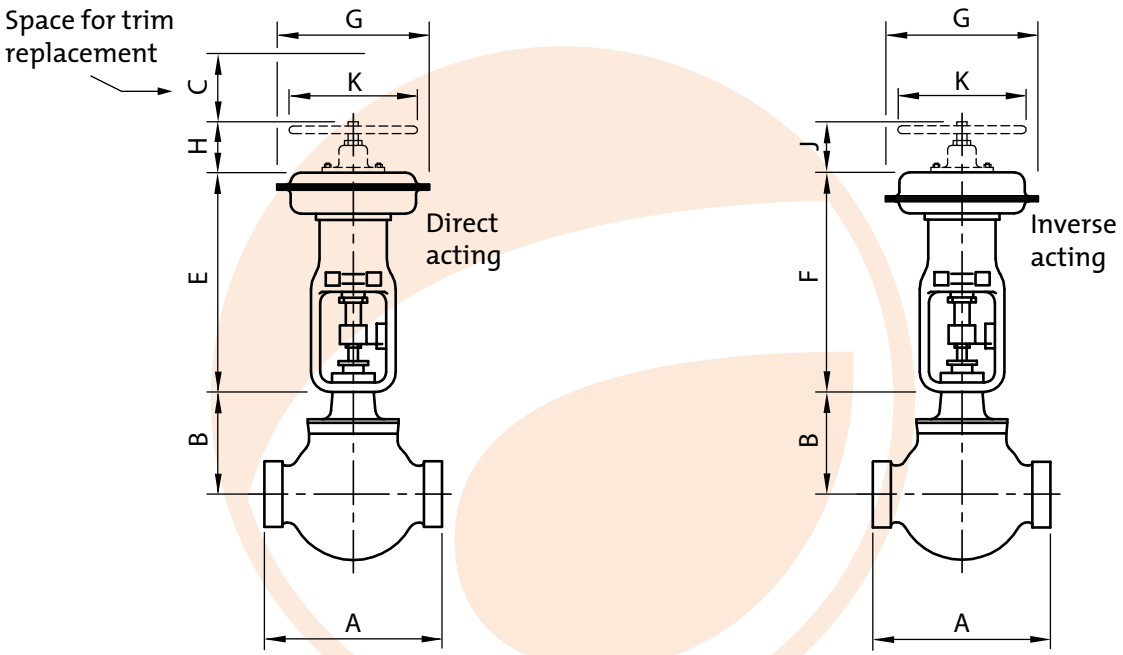
Globe Control Valve

BW, SW & THREADED BODY

COD. AGC-7000

PETROCHEMICAL & ENERGY DIVISION

GLOBE CONTROL VALVE **CLASS 2500 3/4" TO 16"**



CLASS 2500

SIZE	A	B	C
(inch)	(mm)	(mm)	(mm)
3/4"	216	217	100
1"	216	217	100
1 1/2"	260	217	100
2"	318	217	100
3"	381	282	125
4"	381	320	150
6"	610	392	200
8"	762	457	250
10"	1016	572	350
12"	1118	630	400
14"	1268	689	450
16"	1400	759	500

PNEUMATIC ACTUATOR DIM.

MODEL	E	F	G	K	H	J
ARF330	462	500	292	254	152	165
ARF350	594	719	384	457	273	267
ARF380	764	781	457	457	273	292
ARF390	835	889	457	457	245	298

*** From 3/4" to 2" SW & THREADED BODY**

*** From 1 1/2" to 16" BW**

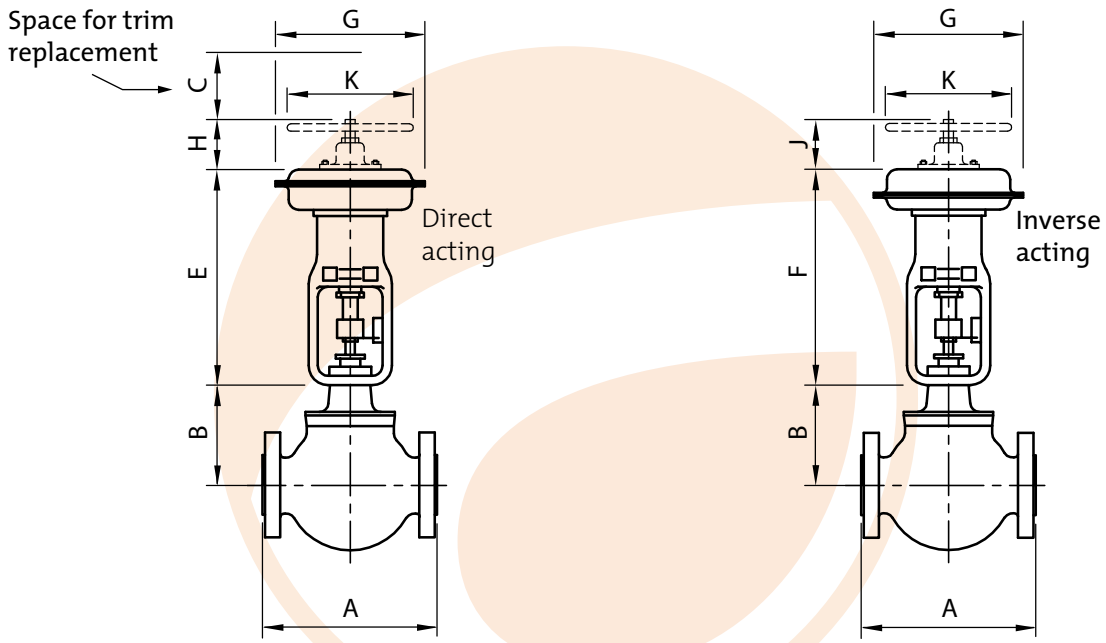
NOTE - Dimensions are for information only. Certified dimensional drawings are available upon request.

Globe Control Valve
FLANGED BODY

COD. AGC-1000

PETROCHEMICAL & ENERGY DIVISION

GLOBE CONTROL VALVE **CLASS 150 3/4" TO 16"**



CLASS 150

SIZE	A	B	C
(inch)	(mm)	(mm)	(mm)
3/4"	184	217	100
1"	184	217	100
1 1/2"	222	217	100
2"	254	217	100
3"	298	282	125
4"	352	320	150
6"	451	392	200
8"	543	457	250
10"	673	572	350
12"	737	630	400
14"	889	689	450
16"	1016	759	500

PNEUMATIC ACTUATOR DIM.

MODEL	E	F	G	K	H	J
ARF330	462	500	292	254	152	165
ARF350	594	719	384	457	273	267
ARF380	764	781	457	457	273	292
ARF390	835	889	457	457	245	298

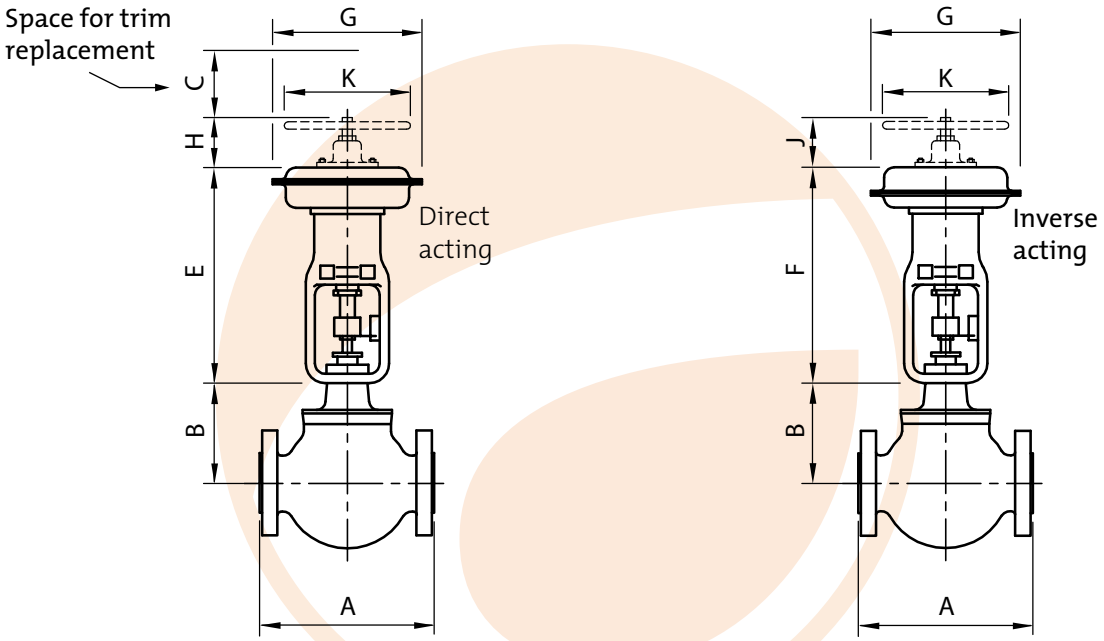
NOTE - Dimensions are for information only. Certified dimensional drawings are available upon request.

Globe Control Valve
FLANGED BODY

COD. AGC-3000

GLOBE CONTROL VALVE **CLASS 300 3/4" TO 16"**

PETROCHEMICAL & ENERGY DIVISION



CLASS 300

SIZE	A	B	C
(inch)	(mm)	(mm)	(mm)
3/4"	194	217	100
1"	197	217	100
1 1/2"	235	217	100
2"	267	217	100
3"	318	282	125
4"	368	320	150
6"	473	392	200
8"	568	457	250
10"	708	572	350
12"	775	630	400
14"	927	689	450
16"	1057	759	500

PNEUMATIC ACTUATOR DIM.

MODEL	E	F	G	K	H	J
ARF330	462	500	292	254	152	165
ARF350	594	719	384	457	273	267
ARF380	764	781	457	457	273	292
ARF390	835	889	457	457	245	298

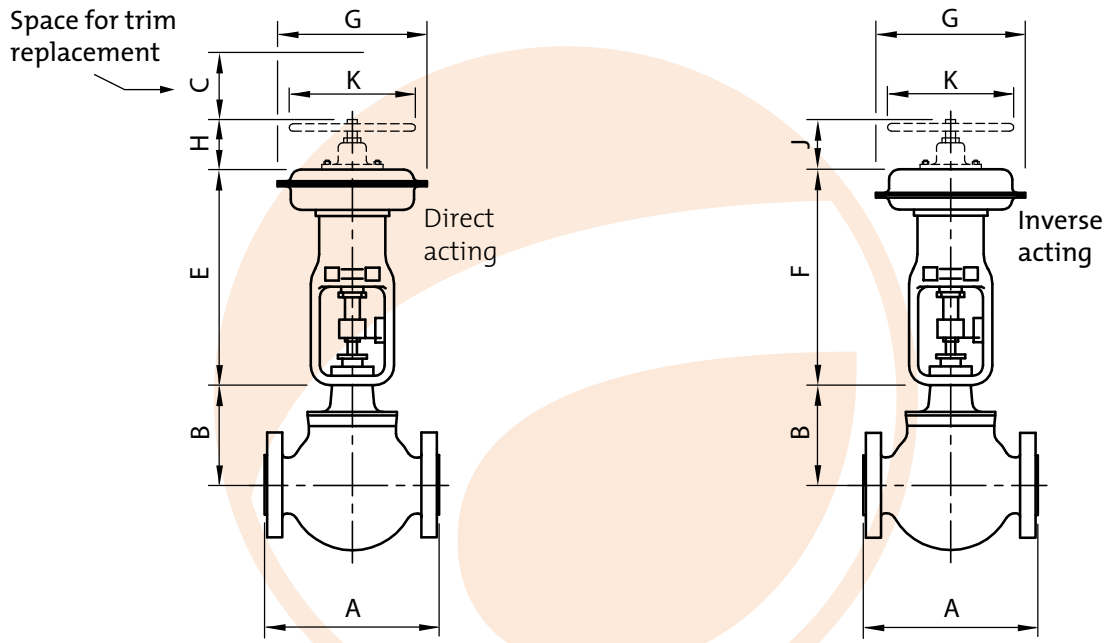
NOTE - Dimensions are for information only. Certified dimensional drawings are available upon request.

Globe Control Valve
FLANGED BODY

COD. AGC-9000

PETROCHEMICAL & ENERGY DIVISION

GLOBE CONTROL VALVE **CLASS 600 3/4" TO 16"**



CLASS 600

SIZE	A	B	C
(inch)	(mm)	(mm)	(mm)
3/4"	206	217	100
1"	210	217	100
1 1/2"	251	217	100
2"	286	217	100
3"	337	282	125
4"	394	320	150
6"	508	392	200
8"	610	457	250
10"	752	572	350
12"	819	630	400
14"	972	689	450
16"	1108	759	500

PNEUMATIC ACTUATOR DIM.

MODEL	E	F	G	K	H	J
ARF330	462	500	292	254	152	165
ARF350	594	719	384	457	273	267
ARF380	764	781	457	457	273	292
ARF390	835	889	457	457	245	298

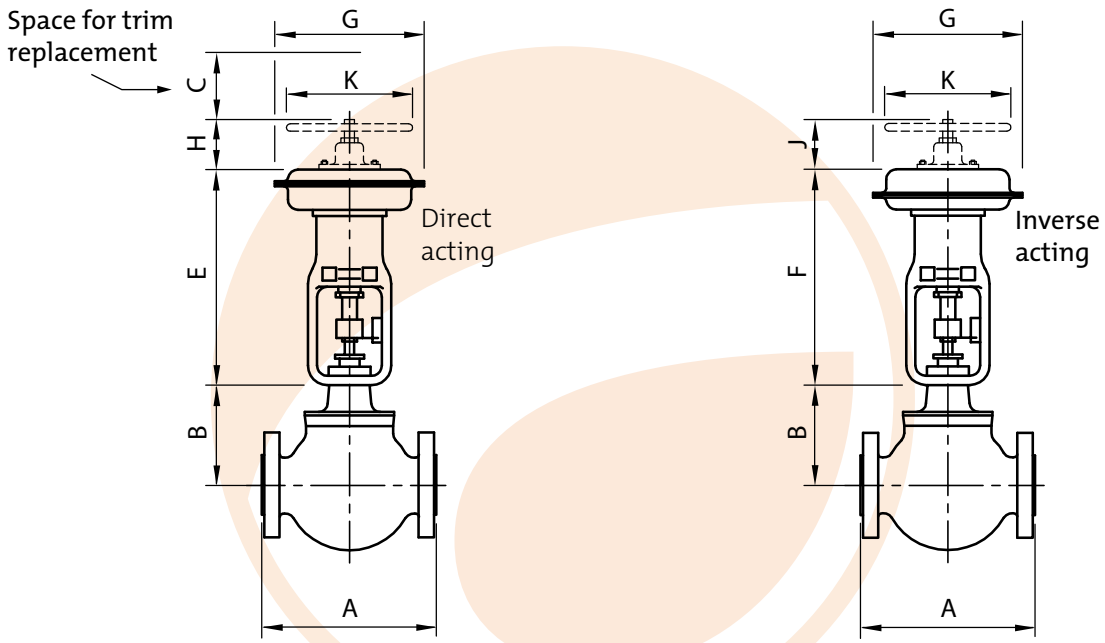
NOTE - Dimensions are for information only. Certified dimensional drawings are available upon request.

Globe Control Valve
FLANGED BODY

COD. AGC-9000

PETROCHEMICAL & ENERGY DIVISION

GLOBE CONTROL VALVE **CLASS 900 3/4" TO 16"**



CLASS 900

SIZE	A	B	C
(inch)	(mm)	(mm)	(mm)
3/4"	273	217	100
1"	273	217	100
1 1/2"	311	217	100
2"	340	217	100
3"	387	282	125
4"	464	320	150
6"	600	392	200
8"	781	457	250
10"	864	572	350
12"	1016	630	400
14"	1257	689	450
16"	1422	759	500

PNEUMATIC ACTUATOR DIM.

MODEL	E	F	G	K	H	J
ARF330	462	500	292	254	152	165
ARF350	594	719	384	457	273	267
ARF380	764	781	457	457	273	292
ARF390	835	889	457	457	245	298

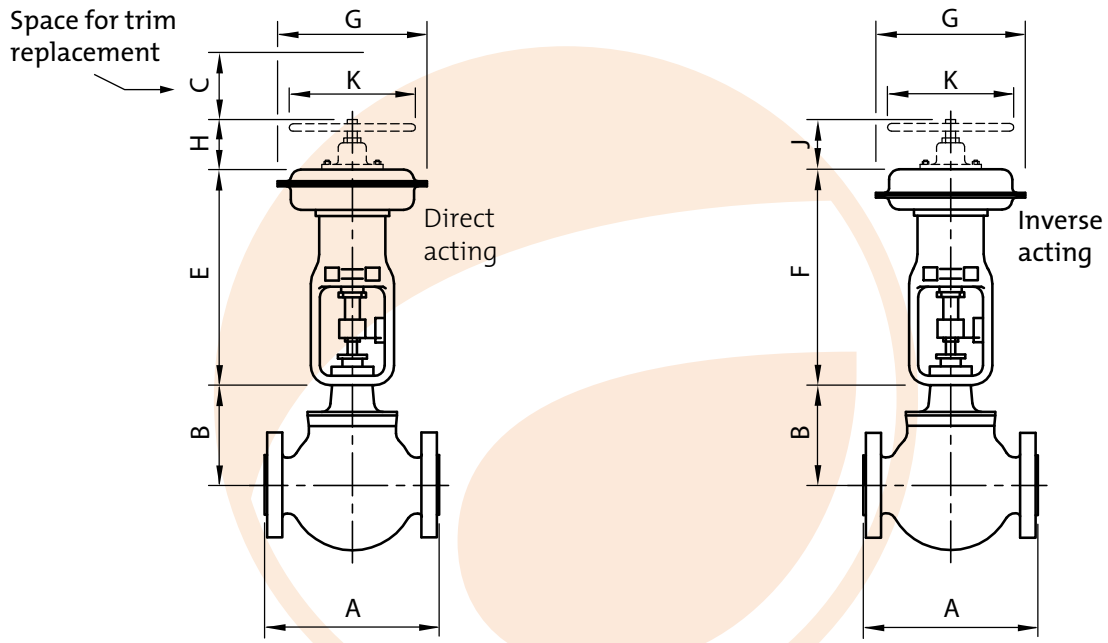
NOTE - Dimensions are for information only. Certified dimensional drawings are available upon request.

Globe Control Valve
FLANGED BODY

COD. AGC-4000

GLOBE CONTROL VALVE **CLASS 1500 3/4" TO 16"**

PETROCHEMICAL & ENERGY DIVISION



CLASS 1500

SIZE	A	B	C
(inch)	(mm)	(mm)	(mm)
3/4"	273	217	100
1"	273	217	100
1 1/2"	311	217	100
2"	311	217	100
3"	406	282	125
4"	483	320	150
6"	692	392	200
8"	838	457	250
10"	991	572	350
12"	1130	630	400
14"	1257	689	450
16"	1422	759	500

PNEUMATIC ACTUATOR DIM.

MODEL	E	F	G	K	H	J
ARF330	462	500	292	254	152	165
ARF350	594	719	384	457	273	267
ARF380	764	781	457	457	273	292
ARF390	835	889	457	457	245	298

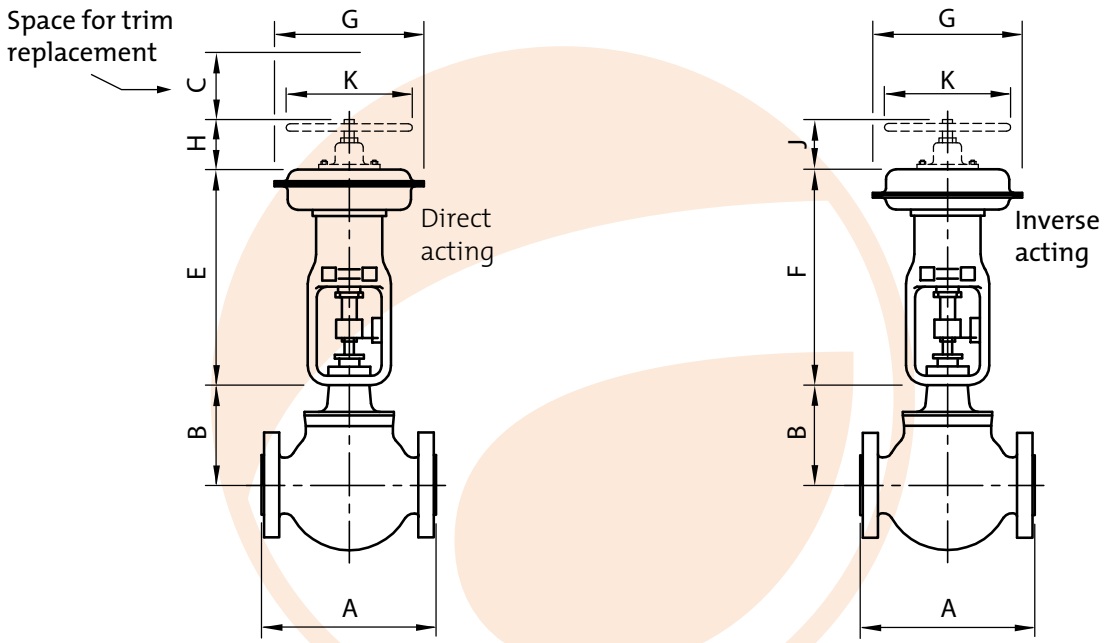
NOTE - Dimensions are for information only. Certified dimensional drawings are available upon request.

Globe Control Valve
FLANGED BODY

COD. AGC-7000

PETROCHEMICAL & ENERGY DIVISION

GLOBE CONTROL VALVE **CLASS 2500 3/4" TO 16"**



CLASS 2500

SIZE	A	B	C
(inch)	(mm)	(mm)	(mm)
3/4"	308	217	100
1"	308	217	100
1 1/2"	359	217	100
2"	359	217	100
3"	498	282	125
4"	575	320	150
6"	819	392	200
8"	1022	457	250
10"	1270	572	350
12"	1321	630	400
14"	1471	689	450
16"	1621	759	500

PNEUMATIC ACTUATOR DIM.

MODEL	E	F	G	K	H	J
ARF330	462	500	292	254	152	165
ARF350	594	719	384	457	273	267
ARF380	764	781	457	457	273	292
ARF390	835	889	457	457	245	298

NOTE - Dimensions are for information only. Certified dimensional drawings are available upon request.

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