

VD10 PN16 - PN25

Pneumatic & Electric Globe Control Valve European std.

Manufactured under ISO 9001 quality assurance system, the OMC **VD10** is a Ductile Iron globe valve that that can accomodate a wide range of different single stage trims.

VD10 series combines an advanced modular design and a wide range of actuators to satisfy the needs of industrial demands.

VD10 valves are designed to control a broad variety of fluids, like steam, water, and most gases. One of the main features of this series is the top guided construction that assure stable plug travel over entire stroke of the valve, minimizing vibration and wear.



14/68/EU Directive (PED) 14/34/EU (ATEX)



EAC Conformity CU TR 010 / CU TR 032



Satefy Integrity Level IEC EN 61508 - TÜV



Fugitive emissions ISO 15848-1



- Top Guided construction to ensure plug stability
- Designed and engineered for rhobustness in demanding applications
 Modular design
- ♦ CEI EN 60534-6-1 Clamp and Yoke Std.
- Std. self adjusting double packing spring loaded
- Shutoff capabilities : Class IV (std.) , V, VI



OPTIONS

Reduced area trim to provide wide capabilities for all sizes

Hardened trims to handle high pressure drop applications

Balanced trims to handle high pressure drop & shutoff

"Quick-Change" seat ring

Low noise & anticavitation design cage

Bellows seal to meet zero emissions (ZEB20)

Bonnet for low temperature and for high temperature

RTJ connections & special on request

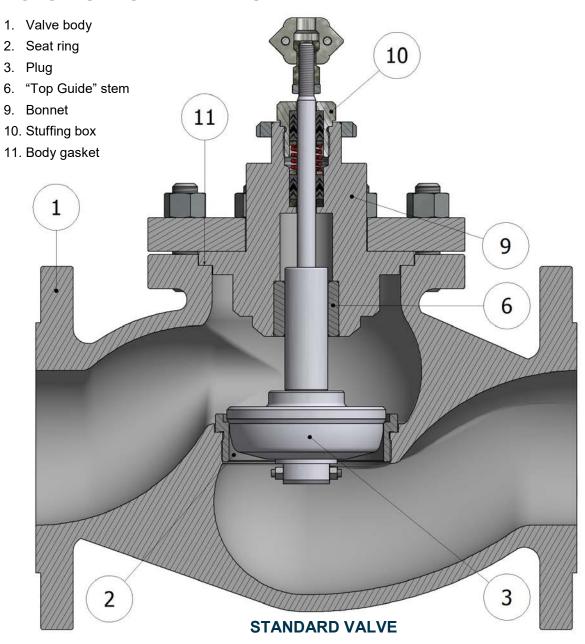


REFERENCE STANDARDS	
Quality system management certification	ISO 9001
Design std.	EN12516-2
Flange connection	EN 1092-2
Pressure Rating	PN16 / PN25
Face to face dimension	EN 558-1
Seat tightness Class	IEC 60534-4
Positioner mounting	CEI EN 60534-6-1
2014/68/EU (PED) Certification	Modulo B + C2
Mechanical resistance calculation method	UNI EN 12516-2
Hydrostatic pressure test	EN 12266-1
Pressure / Temperature relationship	EN 1092.2
2014/34/EU (ATEX) Conformity	II 2 G Ex h IIC T6T1 Gb II 2 D Ex h IIIC T6T1 Db
Non-electrical equipment for explosive atmospheres Basic method and requirements	EN ISO 80079-36
Satefy Integrity Level (SIL)	IEC EN 61508
Satefy Integrity Level (SIL) Approval	SIL 3 - (C-IS-722133629)
Fuggitive emissions Certification	ISO 15848-1
EAC Conformity	CU TR 010 / CU TR 032
NACE	MR0175

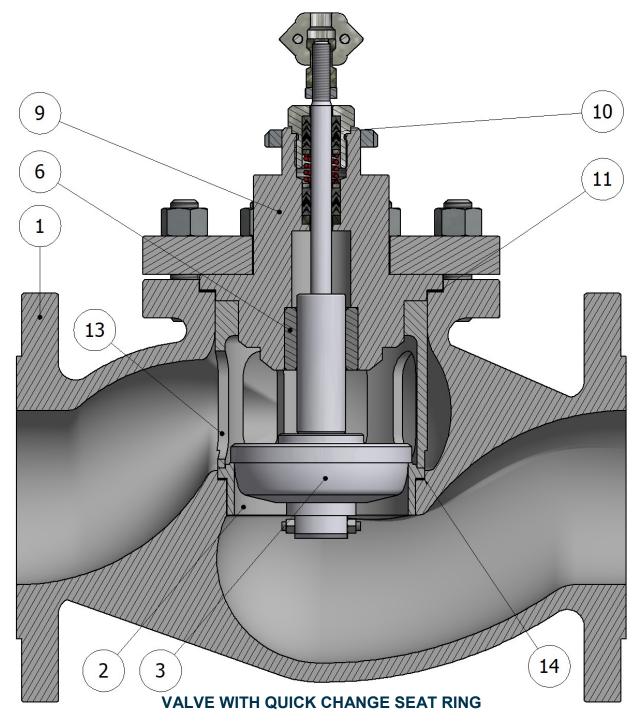
STD VALVE BODY CHARACTERISTICS							
Style	Top entry, single seated, globe valve						
Sizes	from DN15 to DN200						
Pressure rating	PN16 / PN25						
Design std.	EN12516-2						
Flange connection	EN 1092-1- Raised Face - Phonography serrated 125-250 AARH						
Face to face dimensions	EN 558-1						

STD BODY & TRIM MATERIALS COMBINATION								
VALVE BODY (1)	BONNET (9)	TRIM (2 and 3)	TIE ROAD	NUTS	BODY GASKET (11)			
Ductile Iron EN-GJS-400-18 RT	ASTM A105	ASTM A182 F316	A193 B7	A194 H2	Graphite + Stainless steel			

CONSTRUCTION EXAMPLES



CONSTRUCTION EXAMPLES

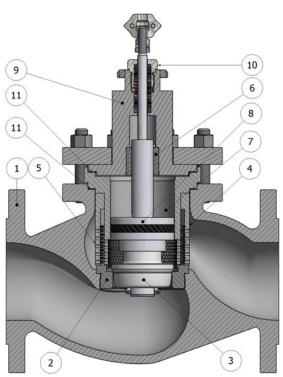


- 1. Valve body
- 2. "Quick Change" seat ring
- 3. Plug
- 6. "Top Guide" stem
- 9. Bonnet
- 10. Stuffing box
- 11. Body gasket
- 13. Seat retainer
- 14. Seat gasket

Unlike the standard seat, the "Quick-Change" seat (2) is not screwed up but is blocked by the part (13). This guarantees a quick field replacement without the use of special equipment

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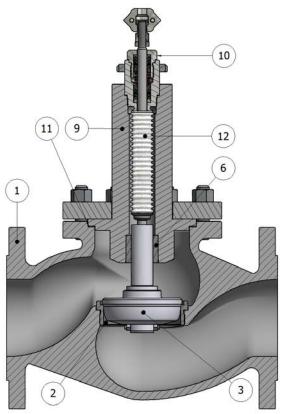
CONSTRUCTION EXAMPLES



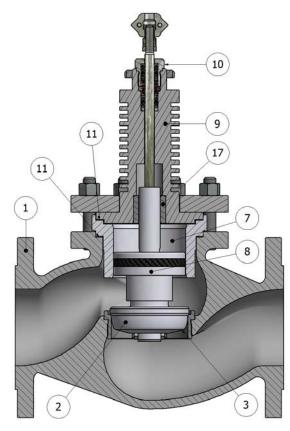
BEALANCED TRIM VALVE
WITH DOUBLE CAGE NOISE REDUCTION



- 2. Seat ring
- 3. Plug
- 4. 1st stage low dB Cage
- 5. 2nd stage low dB Cage
- 6. Top-guide stem
- 7. Balancing sleeve
- 8. Balancing piston
- 9. Bonnet
- 10. Stuffing box
- 11. Body Gasket
- 12. ZEB20 Bellows



VALVE WITH BELLOWS



BEALANCED TRIM VALVE WITH FINNED BONNET

WORKING PRESSURE										
TEMP.	EN-GJS-400-18 RT (5.3104)									
°C	PN16 (bar)	PN25 (bar)								
-10 ÷ 120	16.0	25								
150	15.5	24.3								
200	14.7	23								
250	13.9	21.8								
300	12.8	20								
350	11.2	17.5								

WORKING PRESSURE										
TEMP.	ASTM A105 / EN10273 1.0619 / EN1027									
°C	PN16 (bar)	PN25 (bar)								
RT	16.0	25								
100	14.8	23.2								
150	14	22								
200	13.3	20.8								
250	12.1	19.0								
300	11	17.2								
350	10.2	16.0								

STANDARD PROTECTIVE COATING

WORKING TEMPERATURE	VALVE BODY	BONNET				
from -29° to 150°C	 Bicomponent anticorrosive acrylic primer at high resistance Finish with bicomponent aliphatic acrylic enamel RAL 7021 opaque 					
from 150° to 250°C	Siliconic primerFinish with siliconic enamel RAL 9005	Electrolytic zinc coatings Fe/Zn 8 c1A UNI ISO 4520				
from 250° to 350°C	Heat resistent siliconic primer Finish with siliconic enamel RAL 9006					

PNEUMATIC ACTUATOR STANDARD PROTECTIVE COATING

CASING AND YOKE

Polyester electrostatic epoxy powder coating - RAL 7032









Colors and shades shown in the figure are indicative

PROTECTIVE COATING ON REQUEST

Customer specification colors

Painting for see environment

Painting in according to ISO 12944

Painting in according to NORSOK M-501

NACE - FROSIO painting

Painting for see environment





BONNET TYPES

STANDARD **FINNED EXTENDED** The standard bonnet is cast The finned bonnet is cast or The extended bonnet is cast or forged from the same or forged from the same or or forged from the same or equivalent grade of material equivalent grade of material equivalent grade of material as the valve body. It is suitaas the valve body. as the valve body. ble for applications with tem-Engineered for high tempe-To protect the stem packing peratures between rature applications the fins the exended bonnet traps -5°C to +200°C dissipate heat and protect some process fluid. This provalve stem packing from exvides thermal buffer а treme process temperatures between the packing and the up to +200°C temperature process fluid. -5°C ÷ 350°C Engineered for low temperatures, the extention length is manufactured to suit the applications where minimun temperature medium is below -5°C. -10°C ÷ 220°C

PACKING TYPES - VALVES FROM DN15 UP TO DN100

LP200	SP200	HP300	ECOPACK 1
It consists of a series of energized V ring pack in Virgin PTFE and FKM, especially used with Oxygen and Cryogenic applications. Self-adjusting and maintenance free.	It consists of a series of energized V ring pack in PTFE base & FKM 75 Shore. Suitable for low & medium temperature application. Self-adjusting and maintenance free.	Directly in contact with the medium it consists of a series of energized V ring pack in Graphite and PTFE. Especially used for high temperature applications. Self-adjusting and maintenance free.	Made of a series of energized V ring pack in Graphite/PTFE. ISO 15848-1 Certified for Low emission fugitive test. Self-adjusting and maintenance free.
			BUREAU VERITAS

PACKING / BONNET TEMPERATURE CORRELATION

	LP200	SP200	HP300	ECOPACK 1
EXTENDED BONNET	-10 ÷ 180°C	-10 ÷ 220°C	///	-10 ÷ 220°C
STANDARD BONNET	-5 ÷ 180°C	-5 ÷ 220°C	///	-5 ÷ 220°C
FINNED BONNET	///	-5÷260°C	-5 ÷ 350°C	-5 ÷ 350°C

PACKING TYPES - VALVES FROM DN125 UP TO DN200

LP400 **SP400** HP600 ECOPACK 2 consists of It consists of a series Directly in contact Made of a series of with the medium it series of energized of energized V ring energized V ring V ring pack in Virgin consists of a series pack in PTFE base pack in Graphite/ PTFE and FKM. & FKM 75 Shore. of energized V ring PTFE. ISO 15848-1 especially used with Suitable for low & pack in Graphite and Certified for Low PTFE. Oxygen and medium temperature Especially emission fugitive Cryogenic application. for high test. used applications. temperature Self-adjusting and Self-adjusting and applications. maintenance free. maintenance free. Self-adjusting and maintenance free. Self-adjusting and maintenance free.

PACKING / BONNET TEMPERATURE CORRELATION LP400 SP400 **HP600 ECOPACK 2 EXTENDED BONNET** -10 ÷ 180°C -10 ÷ 220°C /// -10 ÷ 220°C STANDARD BONNET -5 ÷ 180°C -5 ÷ 220°C /// -5 ÷ 220°C FINNED BONNET /// -5 ÷ 350°C -5÷260°C -5 ÷ 350°C

ZEB20 BELLOWS FOR DANGEROUS FLUID

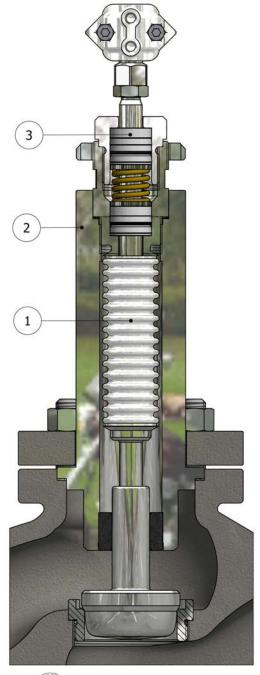
ZEB20 is specifically designed for industrial applications where the possible leakage of process fluid from the packing can cause environmental or personal damage and in extreme cases be hazardous to health.

The ZEB20 is manufactured by welding a bellows to the plug stem and valve bonnet. This removes potential leakage paths, while allowing full movement of the stem. The design provides total isolation of the fluid from the outside environment.

The ZEB20 also includes secondary stem seals as a safety function. These only operate in the unlikely event that a bellows ruptures. The secondary seals will provide reduced risk.

The standard of the bellows material is AISI 316L but, it is also available in in other materials, including Inconel, Monel, Hastelloy, etc...

For safetey critical applications the ZEB20 can be fitted with a test connection to allow the addition of feedback devices that monitor the integrity of the bellows





Fugitive emissions ISO 15848-1

ZEB20 MATERIALS COMBINATION

POS.	DESCRIPTION	STD MATERIALS	ON REQUEST
1	Bellows	AISI 316L	//
2	Bonnet	ASTM A105	<i>III</i>
3	Bonnet	SP200 / SP400	LP200 / HP300 / ECOPACK 1 LP400 / HP600 / ECOPACK 2

CONTROL CHARACTERISTICS

QUICK OPENING

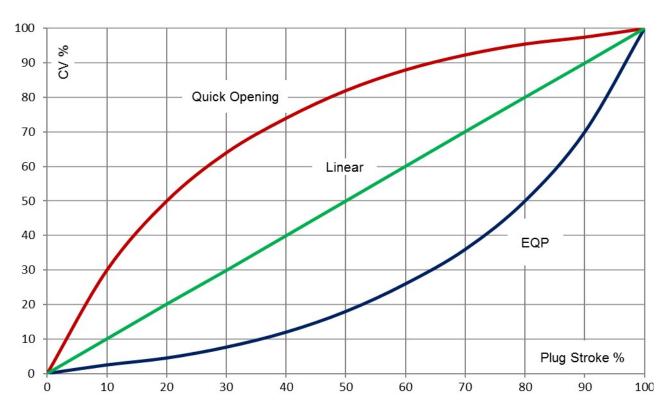
A valve with quick opening flow characteristic provides maximum change in flow rate at low travels and small changes when the valve plug is near maximum. Control valves with auick openina characteristics are often used for on/off applications where significant flow rate must be established quickly as the valve begins to open. Consequently they are often used in relief valve Quick applications. opening valves can also be selected for many of the same applications which linear for flow characteristics are recommended.

LINEAR

A valve with linear characteristic provide a flow rate directly proportional to travel. Linear characteristics are commonly specified for liquid-level and flow-control applications.

EQUAL PERCENTAGE

equal percentage characteristic, equal increments of valve travel produce equal percentage changes in the existing flow. A valve with an inherent equal percentage flow characteristic provides precise throtting control through the lower portion of the travel range and rapidly increasing capacity as the valve plug nears the wide open position. Valves with egual percentage flow characteristics are used on pressure control applications, on applications where a large percentage of the pressure drop is normally absorbed by the system itself with only a relatively small percentage available at the control valve, applications where and on highly varying pressure drop conditions can be expected.

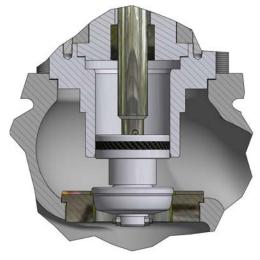


TRIMS CHARACTERISTICS									
	STANDARD	ON REQUEST							
CONTROL	Equal Percentage (EQP)	Quick opening (ON-OFF)							
CHARACTERISTICS	Equal 1 croomage (EQ1)	Linear (PL)							
PORT	Full port	Reduced port							
- OKI	T dii port	Microflow port							
		Stellite faced seat/plug Class IV							
		Saline nitriding (QPQ) seat/plug Class IV							
		Stellite faced seat/plug Class V - Lapped Only with quick-change seat							
SEAL	Metal seat tightness Class IV	Lapped seat/plug Class V Only with quick-change seat							
		PTFE soft seal <300°F (150°C) - Class VI							
		PTFE-GR soft seal <375°F (190°C) - Class VI							
		PEEK Soft seal <536°F (280°C) - Class VI							



BALANCED PLUG CONSTRUCTION

In applications where there there is a high flow rate and a high pressue drop valve actuators can struggel to provide tight shut off agains the force of the upstream pressure on the plug. In these applications the balanced plug option redirects some of the upstream pressure to balance the influence of the pressure drop across the plug. This results in a more efficient actuator thrust for a particular size of actuator. This ensures the tightness class of the valve.



Balanced trim

CAVITATION, FLASHING EFFECT NOISE LEVEL

The globe valve allows the regulation of a parameter which can be the pressure or flow going to modify the flow of pressurized fluid in the system. The principle used is that of the Bernoulli law or the continuity of the fluids. In a globe valve, if I decrease the passage section, the speed increases while the pressure decreases. If this pressure falls below the vapor pressure of the bubbles could be created that could produce two flow disturbance phenomena:

Cavitation effect Flashing effect

Cavitation consists of rapid vaporization condensation within a liquid. When local pressure falls to vapor pressure (approximately 0.25 psi / 0.018 bar absolute for cold water), vapor bubbles are formed and when these bubbles travel to an area of higher pressure, the bubbles collapse with phenomenal force and great localized stress. It is the violent collapse of these vapor bubbles near valve components or downstream piping surfaces, which cause cavitation damage and subsequent performance degradation. Typically, the reason for low pressure is that the pressure drop across a control valve has created very high velocity in the seat area and corresponding low pressure because potential (pressure) energy is reduced to compensate for the increase in kinetic energy. The principle can be applied to various types of fluid flow and simply states that when there is an increase in the velocity of fluids then it must be accompanied by a decrease in the fluid's pressure, the total energy associated with the flow must remain constant.

The **Flashing** effect is similar to cavitation, except that bubbles explode downstream of the valve.

In control valves, the pressure drop typically occurs at or near the seat area or just downstream. The shock waves and pressure fluctuations resulting from these high velocity bubble collapses can also cause noise, vibrations, accelerated corrosion, as well as limited valve flow. Typically the cavitation is formed in the valve throttling area, the pressure fluctuations radiate into the downstream pipe as noise

The KA10 Series can be equipped with anticavitation and or low noise trims to reduce the possibility of cavitation and noise.



Anticavitation Cage



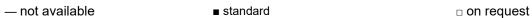
Low dB Trim single stage

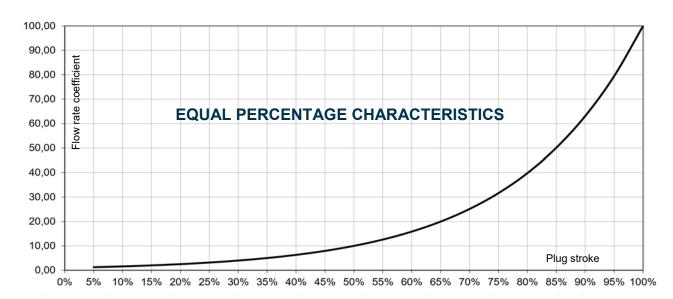


Low dB Trim double stage

EQUAL PERCENTAGE PLUG FLOW RATE COEFFICIENTS

CV	Kv	Seat bore diameter	Std. Plug stroke												
		mm	mm	15	20	25	32	40	50	65	80	100	125	150	200
0.08	0.07	3								_	_	_	_	_	_
0.20	0,17	4								_	_	_	_	_	_
0.60	0,51	5								_	_	_	_	_	
1.00	0,85	7								_	_	_	_	_	
1.3	1,11	8								_		_			_
1.8	1,54	9									_	_		_	
2	1,7	10									_	_		_	_
2.5	2.15	10	20									_		_	
3	2,58	10										_			_
3.5	3	10										_		_	
5.5	4.7	20		•									_		
8	6,8	20			•										
13	11	25			_	•									
19	16	30		_	_		•								_
29	25	38		_	_		_	•							
50	43	49		_	_		_	_	•						
75	64	64		_	_	_		_	_	•					
112	96	76	30	_	_	_	_	_	_	_	•				
173	148	100		_	_		_		_			•			
190	162	100	35	_	_	_	_	_	_	_	_				
270	231	126	50		_	_	_						•		
410	351	151	30	_			_				_			-	
720	615	201	60			_	_	_		_	_		_	_	•





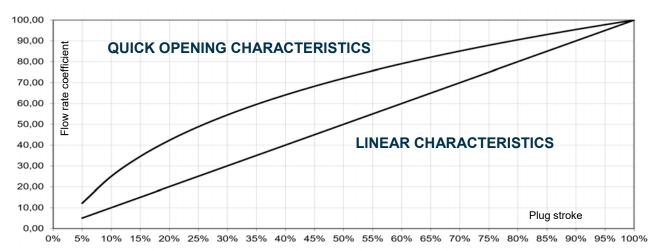
LINEAR AND QUICK OPENING PLUG FLOW RATE COEFFICIENTS **SEAT BORE DIAMETER AND STROKE**

CV	Kv	Seat bore diameter	Std plug stroke						Valv	e size					
		mm	mm	15	20	25	32	40	50	65	80	100	125	150	200
0.03	0,02	3								_	_	_	_	_	_
0.05	0,04	3								_	_	_	_	_	_
0.08	0,07	3								_	_	_	_	_	_
0.20	0,17	4								_	_	_	_	_	_
0.60	0,51	5								_	_	_	_	_	_
0.75	0,65	6								_	_	_	_	_	_
1.00	0,85	7								_	_	_	_	_	_
1.3	1,11	8								_	_	_	_	_	_
1.8	1,54	9								_	_	_	_	_	_
2	1,7	10	20							_	_	_	_	_	_
2.5	2.15	10									_	_		_	_
3	2,58	10									_	_			_
3.5	3	10										_		_	_
6	5,1	20		•										_	_
8	6,8	20			•										_
13	11	25			_	•									_
19	16	30			_	_	•								_
29	25	38		_	_	_	_	•							
50	43	49			_	_	_		•						
75	64	64			_	_	_	_		•					
112	96	76	30		_	_	_				•				
173 ^a	148	100		_	_	_	_	_	_	_	_	•			
190	162	100	35 ^b	_	_	_	_	_	_	_	_				
280	239	126	50										•		
435	372	151	30			_	_							•	
720	615	201	60		_		_								•
— not available ■ standard □ on request															

⁻ not available

a) not avalaible for quick opening characteristic

b) 30mm for quick opening characteristic



AP SERIES PNEUMATIC ACTUATORS - SPECIFICATIONS

AP series pneumatic actuators are multi diaphragm actuators. They are Available with four (4) different sizes of internal diaphragms. They are extremely compact and they can guarantee a perfect linearity to satisfy the control needs of the valves at different working pressures. They are equipped with an industry standard yoke (CEI EN 60534-6-1), which ensures accesories can be fitted quickly and easily. A full range E/P positioners, solenoid valves, limit switch boxes and feedback devices are available as option. As you standard a mechanical travel indicator and index scale are included as standaard on all actuators.

TECHNICAL DATA								
TYPE	Diaphragm type - multispring							
CONTROL SIGNAL	Direct Action (Air to close - valve normally open) 3÷15psi; 6÷18psi; 6÷30psi; 15÷60psi Reverse (Air to open - valve normally closed) 3÷15psi; 6÷18psi; 6÷30psi; 15÷60psi							
MAX AIR SUPPLY PRESSURE	50 psi (3,5bar) for signals 3÷15psi ; 6÷18psi; 6÷30psi; 87 psi (6 bar) for signal 15÷60 psi							
PNEUMETIC CONNECTION	1/4" NPT-F							
AMBIENT TEMPERATURE	-4÷160°F (-20+70°C)							

MATERIALS									
STANDARD	ON REQUEST								
Painted Carbon steel	Electropolished Stainless Steel								
A193 B7 - A194 2H	Other materials								
Nitrile butadiene rubber (NBR)	Other materials								
ASTM 182 F304									
ASTM A 351 CF8									
EN 10270-1SH painted	Stainless steel								
Zinc plated carbon steel	Stainless steel								
	Painted Carbon steel A193 B7 - A194 2H Nitrile butadiene rubber (NBR) ASTM 182 F304 ASTM A 351 CF8 EN 10270-1SH painted								

PROTECTIVE COATING								
STANDARD	Finish poweder coat polyester RAL 7032							
ON REQUEST	Painting for see environment Customer specification							



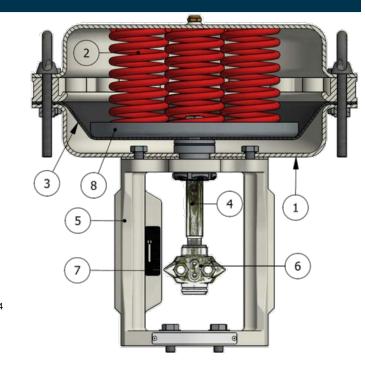
MATERIALO

ACCESSORIES

- Top mounted handwheel
- Pneumatic, Electropneumatic & Smart positioners
- ♦ I/P Converter
- 4÷20 mA position feedback
- Alarm contacts
- Air filter regulator
- Solenoid valves
- Lock-Up pneumatic device

- 1. Casing
- 2. Spring
- 3. Diaphragm
- 4. Splinde
- 5. Integral yoke
- 6. Valve clamp connection
- 7. Stroke indicator
- 8. Diaphragm plate

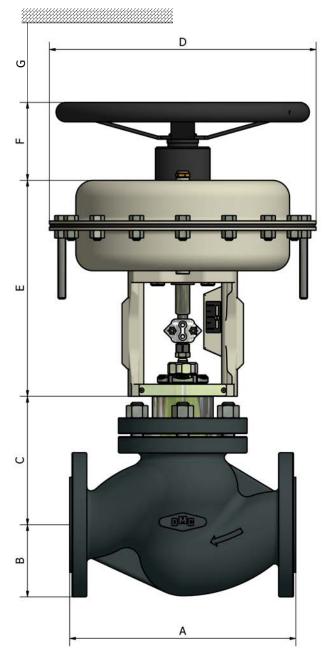
cl. IV : metal seat tightness class IV - ANSI FCI 70.2 - IEC 60534-4 cl. VI : soft seal class VI - ANSI FCI 70.2 - IEC 60534-4 the pressure drop values must be used with in the body rating limit



S	T K N	(psi)		5.5 6.0	C/	/ 8	CV	13	CV	19	CV	29	CV	50	CV	75	CV	112	CV	173	CV ·	190	CV		CV		CV	72
ACTUATOR	THRUST KN	Signal (psi)	cl IV	cl VI	cl IV	cl VI	cl IV	cl VI	cl IV	cl VI	cl IV	cl VI	cl IV	cl VI	cl IV	cl VI	cl IV	cl VI	cl IV	cl VI	cl IV	cl VI	cl IV	cl VI	cl IV	cl VI	cl IV	(
	0.3	3÷15	14	18	14	18	9	12	5	8	3	4	2	3														
AP23	0.4	6÷18	16	22	16	22	11	17	7	10	4	5	3	4														
₹	0.6	6÷30	22	28	22	28	16	25	10	15	6	8	4	6														
	1.5	15÷60	45	60	45	60	35	56	27	33	15	17	8	12														
	0.6	3÷15	27	30	27	30	17	26	8	15	6	9	4	6														
AP28	1.0	6÷18	38	40	38	40	21	30	13	19	10	12	5	8														
₹	1.2	6÷30	50	55	50	55	26	47	23	26	12	16	7	12														
	2.4	15÷60	80	90	80	90	48	75	40	56	25	38	17	23														
n	1.2	3÷15	60	65	60	65	50	55	20	23	12	18	10	16	4	4	2	3	1	1								Ī
5	1.5	6÷18	80	85	80	85	60	65	30	35	15	18	12	15	6	7	4	5	2	3								Ī
AP 34 / AP 35	1.9	6÷30	99	99	99	99	80	85	40	45	20	25	14	16	7	8	5	6	3	3								Ī
(3.5	15÷60							62	65	36	45	25	29	11	13	8	11	6	6								
	2.8	3÷15									35	40	24	26	7	8	6	6	4	4								Ī
ָל נ	3.3	6÷18									40	45	26	28	9	10	8	8	5	5								Ī
AP45 / AP44	3.8	6÷30									40	45	26	28	12	12	10	10	6	6								
∢	7.6	15÷60									65	85	40	70	28	37	22	27	15	17								Ī
AP4/	7.6	15÷60																			15	17						
AP45	7.6	15÷60									65	85	40	70	28	37	22	27	15	17								
AP46	7.6	15÷60																			15	17	7	8	5	6	3	
6 3		metāf seat soft seal cl		ines: VI -		ss I\		NSI 2 - I		70.2 30534		C 60		4			44	54	30	34	30	34	14	16	10	12		
		son sear cr ssure drop 15÷60		es m		be u		with		e boo		ting															6	

DIMENSIONS

				C mm - Stand	ard trim		C mm - Balar	nced trim	
DN	A mm	B mm	Std. bonnet	Bonnet with bellows	Finned / Extended bonnet	Std. bonnet	Bonnet with bellows	Finned / Extended bonnet	G mm
DN15	130	47.5	126	226	163		_	-	100
DN20	150	52.5	126	226	163	_	_	_	100
DN25	160	57.5	129	228	173	_	_	_	100
DN32	180	70	129	228	173	_	_	-	100
DN40	200	75	128	226	185	_	_	_	100
DN50	230	82.5	128	226	185	157	256	214	100
DN65 (*)	290	92.5	165	292	255	218	334	277	100
DN80	310	100	187	306	260	230	348	282	100
DN100	350	110	184	307	310	245	365	310	100
DN125	400	125	256	369	369	352	472	394	120
DN150	480	142.5	259	372	372	356	476	398	120
DN200	600	170	283	395	395	380	500	422	120



(*) According to standard EN1092-2 DN65 valves in cast iron flanged PN16 must be provided with 4 holes. They can be supplied with 8 holes only at the specific request of the customer.

ACTUATOR

			Fr	nm		THRUST		
TYPE	Ø D mm	E mm	N.A.	N.C.	THRUST AREA	VOLUME		
				(INV.)	(cm²)			
AP23	230	245	135	85	203	~ 1.8		
AP28	275	253	100	00	304	~ 3		
AP34 AP35	342	276	185	85	475	~ 5.7		
AP43 AP44		303	300	150		~ 11.5		
AP45		393						
AP47	430	335	300	150	744	~ 13.5		
AP46		425	300	150				
AP60	600	450	//	//	1690	~ 32		
AP62	600	480	//	//	1690	~ 40		

PNEUMATIC PISTON SERIES OP

The OP series pneumatic actuators are used especially for multi-spring piston valves with ON-OFF function. Available in 2 sizes, are extremely compact. Equipped with mechanical stroke indicator, the integral yoke meets Std CEI EN60534-6-1 to direct mounting accessories such as, switches, etc ...

TECHNICAL DATA								
TYPE	Piston type - multispring							
CONTROL SIGNAL	from 90 psi (6 bar) to 145 psi (10 bar)							
MAX AIR SUPPLY PRESSURE	145 psi (10 bar)							
PNEUMETIC CONNECTION	1/4" NPT-F							
AMBIENT TEMPERATURE	-4÷160°F (-20+70°C)							

MAIERIALS	WAI ERIALS									
	STANDARD	ON REQUEST								
CASING	Painted Alluminium	Electropolished Stainless Steel								
YOKE	Painted Carbon steel	Electropolished Stainless Steel								
BOLTS AND NUTS	A193 B7 - A194 2H	Other materials								
PISTON	NBR	<i>II</i>								
SPLINDE	ASTM 182 F304									
VALVE CLAMP CONNECTION	ASTM A 351 CF8	<i>II</i>								
SPRING	EN 10270-1SH painted	Stainless steel								
INTERNAL PARTS	Zinc plated carbon steel	Stainless steel								

PROTECTIVE COATING							
STANDARD	Finish poweder coat polyester RAL 7032						
ON REQUEST	Painting for see environment Customer specification						



MATERIALC

ACCESSORIES

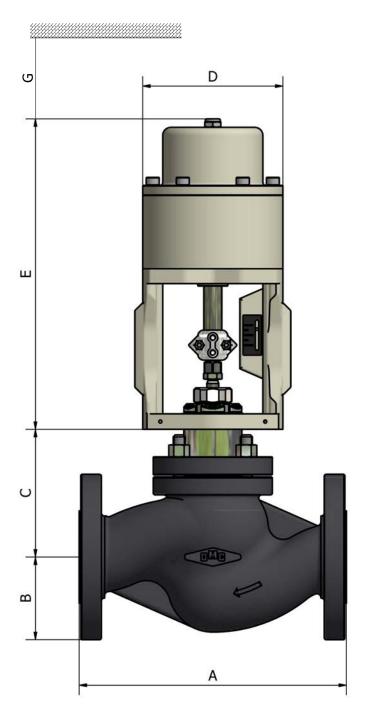
- Alarm contacts
- Air filter regulator
- Solenoid valves
- ♦ Lock-Up pneumatic device

MAXIMUM ADMISSIBLE PRESSURE DROPS IN bar (FLUID OPEN) FOR UNBALANCED

ACTUATOR	CV 6	CV 8	CV 13	CV 19	CV 29	CV 50	CV 75	CV 112	CV 173 CV190
OP10	12	12	12	12	12	12			
OP16							12	8	3

DIMENSIONS

		B mm			C mm - Stand	ard trim		nced trim		
DN	A mm	PN16	PN25	Std. bonnet	Bonnet with bellows	Finned / Extended bonnet	Std. bonnet	Bonnet with bellows	Finned / Extended bonnet	G mm
DN15	130	47.5	47.5	126	226	163		_	_	100
DN20	150	52.5	52.5	126	226	163	_	_	_	100
DN25	160	57.5	57.5	129	228	173	_	_	_	100
DN32	180	70	70	129	228	173	_	_	_	100
DN40	200	75	75	128	226	185	_	_	_	100
DN50	230	82.5	82.5	128	226	185	157	256	214	100
DN65 (*)	290	92.5	92.5	165	292	255	218	334	277	100
DN80	310	100	100	187	306	260	230	348	282	100
DN100	350	110	117.5	184	307	310	245	365	310	100



(*) According to standard EN1092-2 DN65 valves in cast iron flanged PN16 must be provided with 4 holes. They can be supplied with 8 holes only at the specific request of the customer.

	ACTUATOR										
TYPE	Ø D inches (mm)	E inches (mm)									
		1/2 - 1" 1/2	2"	3" - 4"							
OP10	9.05 (230)	10.51 (267)	11.50 (292)	//							
OP16	10.82 (275)	//	//	13.19 (335)							

ELECTRIC ACTUATORS

The OMC control valves can be supplied with electric actuators of the best manufacturers to meet the most varied demands in the industrial processes.



AVAILABLE ENDS CONNECTIONS



RAISED FACE



RING JOINT FACE



MALE FACE



FEMALE FACE



GROOVE FACE

VE BODY WEIGHT (Kg)				
SIZE	Standard	Finned / Extended	With bellows	
DN15	4.7	5.2	5.9	
DN20	5.4	5.9	6.6	
DN25	6.8	7.5	7.9	
DN32	8.2	8.8	9.3	
DN40	11.2	12.3	12.9	
DN50	14.3	15.4	15.9	
DN65	25.3	28.4	29.5	
DN80	28.9	31.9	33	
DN100	39.2	48.8	43.1	
DN125	83.9	91.8	90.9	
DN150	109.1	117	115.8	
DN200	165	172.8	171.5	

PNEUMATIC ACTUATOR WEIGHT (Kg)

SIGNAL	ACTUATOR	HAND WHEEL	
3÷15 / 6÷18 / 6÷30	7		
15÷60	8	1	
3÷15 / 6÷18 / 6÷30	9		
15÷60	10		
3÷15 / 6÷18 / 6÷30	15	2	
15÷60	17		
3÷15 / 6÷18 / 6÷30	27	3	
15÷60	32	7	
15÷60	38	7	
15÷60	45	7	
15÷60	45	7	
15÷60	155	//	
15÷60	169	//	
ON-OFF	8	//	
ON-OFF	13	//	
	3÷15 / 6÷18 / 6÷30 15÷60 3÷15 / 6÷18 / 6÷30 15÷60 3÷15 / 6÷18 / 6÷30 15÷60 3÷15 / 6÷18 / 6÷30 15÷60 15÷60 15÷60 15÷60 15÷60 ON-OFF	3÷15 / 6÷18 / 6÷30 7 15÷60 8 3÷15 / 6÷18 / 6÷30 9 15÷60 10 3÷15 / 6÷18 / 6÷30 15 15÷60 17 3÷15 / 6÷18 / 6÷30 27 15÷60 32 15÷60 38 15÷60 45 15÷60 45 15÷60 155 15÷60 169 ON-OFF 8	

The contents of this pubblication are presented for information purpose only. We reserve to modify or improve the designs or specifications of such products at ant time without notice



OMC S.p.A.

Via Galileo Galilei, 18 - 20060 Cassina de Pecchi (MI) - ITALY

Tel.: (+39) 02.95.28.468 Fax: (+39) 02.95.21.495 info@omcvalves.com www.omcvalves.com