

702-703 VALVE WITH AP-RE PNEUMATIC ACTUATOR

FEATURES

The 702+AP-RE ball valve is designed for the automatic opening / closing of pipes with non-loaded industrial fluids, up to a pressure of 100 bar, and up to 40 bar for the flanged 703s. The 3-part tie-bolt or embedded pin construction with double-sealing, antistatic device and fire safety device enables it to be used in the oil and gas industries. It is a full-bore, fire safe, EC- and ATEX-certified valve. The ISO 5211 mounting pad allows the actuator to be easily assembled. The pneumatic motorisation is available in double and spring-return with numerous options.

AVAILABLE MODELS

702: carbon steel body.

703: stainless steel body.

1/4" to 2" diameters.

Connections: G threaded, and NPT, SW and BW to be welded.

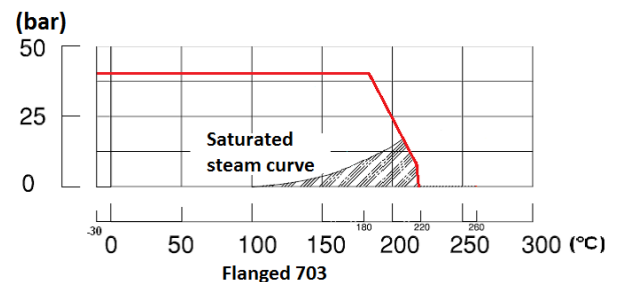
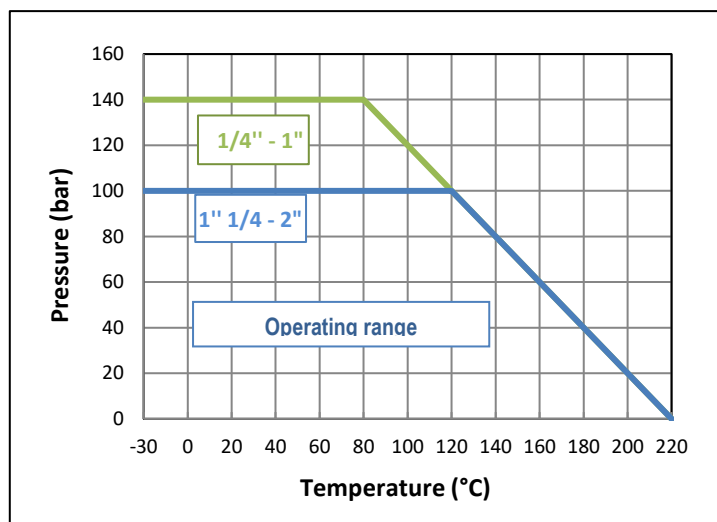
Flanged 703: DN15 to DN50, R.F. PN40 flanges

Double and spring-return actuators.



LIMITS OF USE

Fluid pressure: PS	1/4" to 1": 140 bar (20°C) 1" 1/4 to 2": 100 bar DN15 to DN50: 40 bar
Fluid temperature: WT	Steel: -20°C / +218°C Stainless steel: -30°C / +218°C
Ambient temperature	-20°C / +80°C
Motor compressed air	mini 4 bar / maxi 10 bar



Information given as an indication only, and subject to possible modifications



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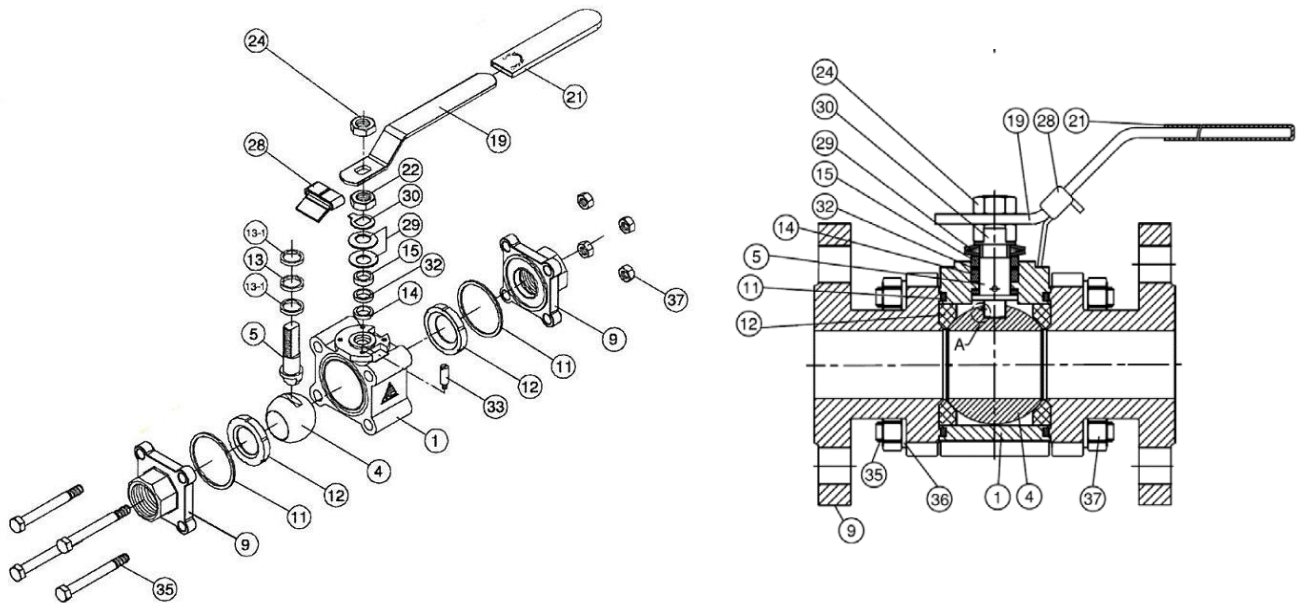
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Rev.	0
Date	07/2019

702-703 VALVE WITH AP-RE PNEUMATIC ACTUATOR

DIRECTIVES AND MANUFACTURING STANDARDS

OBJECT	Standard	ON	OBJECT	Standard
Pressure Equipment Directive 2014/68/EC	1/4" to 1": not subject		Final test	API 598
	1"1/4 to 2': category III	TÜV 0035	Material certificate	NKS 10204
Design	ANSI B16.34		Fire safe	API 607
Size	EN 12516-1		Connection Motorisation	ISO 5211:
Steel grades	EN 1503-2		Actuator pilot connection	NAMUR
G Connection	ISO 228-1		NPT connection	ANSI B1.20
ATEX Directive	II 2G/D Tx zones 1,2,21 and 22		Switch box connection	VDI/VDE 3845
	EN 13463-1		SIL 3 level (the actuator alone)	NKS 61508

CONSTRUCTION



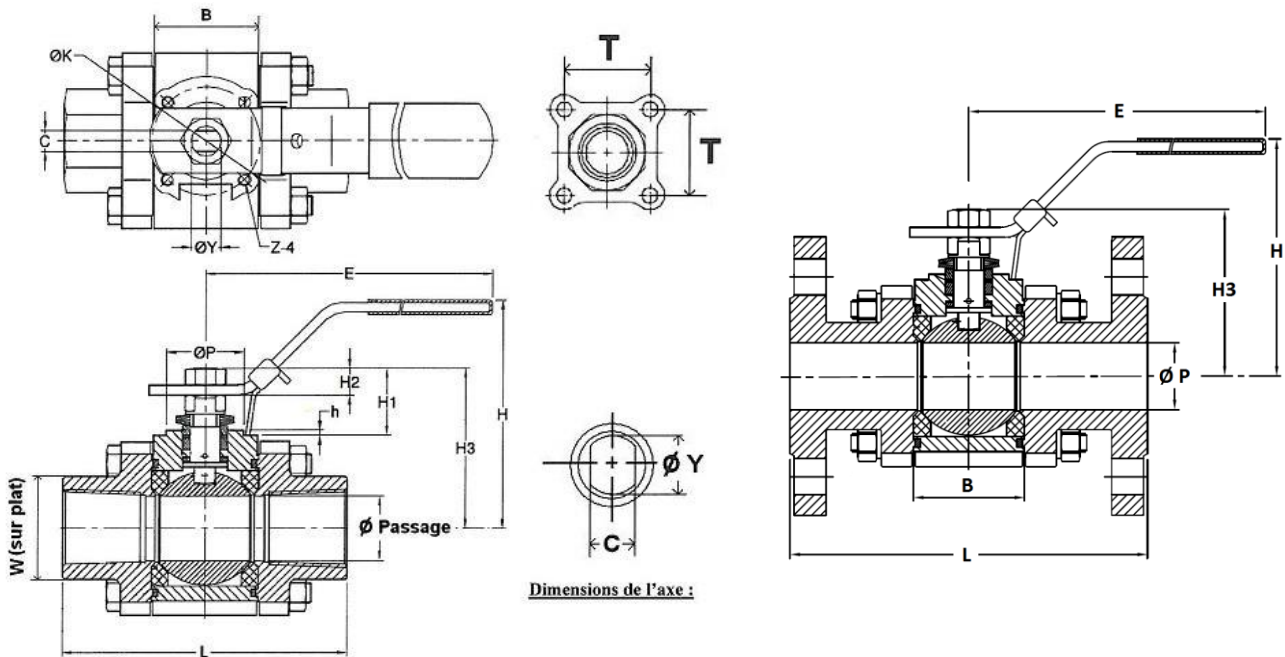
No.	Name	Steel	Stainless steel	No.	Name	Steel	Stainless steel
1	Body	ASTM A216 WCB	ASTM A351 CF8M	21	Handle sheath		PVC
4	Ball	ASTM A351 CF8M		22	CG nut		304 SS
5	Stem	A182 F 316 SS		24	Grip nut		304 SS
9	Ends	ASTM A216 WCB	ASTM A351 CF8M	28	Padlocking		304 SS
11	Body gasket	Graphite		29	Belleville spring		301 SS
12	Seat	Loaded PTFE 15% graphoil		30	Lock washer		304 SS
13	Ring	Graphite		32	CG gasket		Loaded PTFE 15% graphoil
13.1	Ring	Loaded PTFE 15% graphoil		33	Pointer		304 SS
14	Packing gland	Graphite		35	Tie-bolt or pin		304 SS
15	Spacer	304 SS		37	Tie-bolt nut		304 SS
19	Handle	304 SS					

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DIMENSIONS (mm)



DN	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
ØD	10	10	15	20	25	32	38	50
L	64.8	64.8	72.5	85.4	105.3	111	127.3	145
L (BW)	64.8	64.8	75	90	110	115	130	145
L Flanges	/	/	130	150	160	180	200	230
B	19.6	19.6	24	31	40.7	47.7	55.6	70
E	134	134	134	134	170	170	207	215
H	64	64	72	77	83	88	104	133
H1	7.4	7.4	16.1	18.4	25.2	24.2	33.4	28.1
H2	6.1	6.1	7.3	9.1	11.6	9.6	15	16
H3	37.2	37.2	45.1	51.4	61.4	64.2	79	99.4
h	0.5	0.5	2	2	2	2	2.2	1.5
C	6.5	6.5	6.5	6.5	8	8	9.7	12
ØY	9.5	9.5	9.5	9.5	11.1	11.1	14.3	19
T	32	32	39	45	50	58	68	82
W	29.5	29.5	30	36	44.5	54	60	73.2
ØK	36	36	36	36	42	42	50	70
ØP	25	25	25	25	30	30	35	55
Z-4	M5	M5	M5	M5	M5	M5	M6	M8
Weight (kg)	0.7	0.7	0.85	01:37	2	2.78	04:08	6.80
Flange weight	/	/	2.2	3.3	4.5	6.5	8.1	13

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AP-RE PNEUMATIC MOTORISATION

The ALPHAIR motorisation proposed as standard comprises:

- rack and pinion actuator of anodised aluminium.
- a safety coefficient of 1.3 minimum compared to the nominal torque of the valve.
- air non-lubricated dry motor.
- an upstream / downstream pressure difference $\Delta P=10$ bar max.

The actuator mount is a yoke + stainless steel driver according to EN 15081.

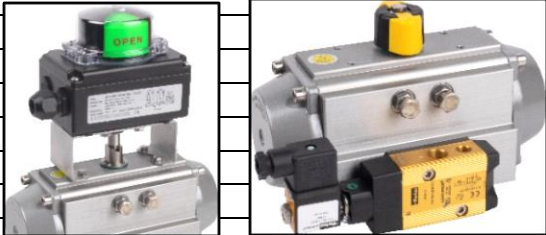
ACTUATOR DESIGN FOR 6 BAR MOTOR AIR

DN	Double-effect	V (litres)	Time (s)*	Single-effect	V (litres)	Time (s)*
1/4"	RE 51	0.23	1	RES 51/6	0.23	1
3/8"	RE 51	0.23	1	RES 51/6	0.23	1
1/2"	RE 51	0.23	1	RES 64/6	0.45	1
3/4"	RE 51	0.23	1	RES 64/6	0.45	1
1"	RE 51	0.23	1	RES 76/6	0.61	1
1" 1/4	RE 64	0.45	1	RES 76/6	0.61	1
1" 1/2	RE 64	0.45	1	RES 86/6	0.98	1
2"	RE 76	0.61	1	RES 101/6	1.80	2

*indicative time of the no-load actuator for opening or closing.

MOTORISATION OPTIONS

There are many options, so please contact our sales service for more information on these:

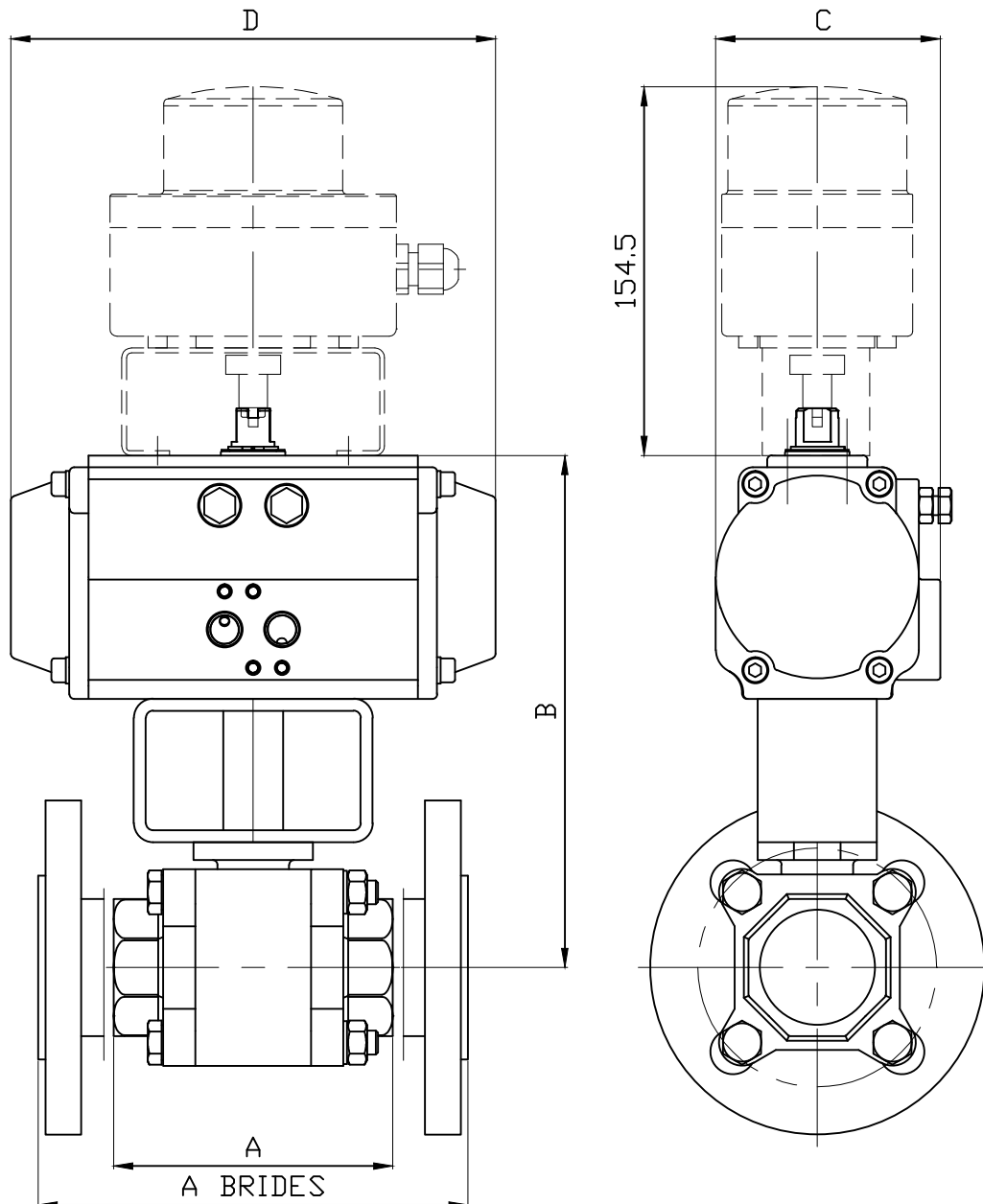
1	actuators dimensioned for a compressed air pressure of 3 bar	
2	actuator dimensioned for an upstream / downstream pressure difference ΔP greater than 10 bar	
3	actuator with special coatings, stainless steel actuator	
4	Actuator for very low (-60°C) or very high (+150°C) ambient temperatures.	
5	Automatic safety valve with a reinforced safety coefficient and closing time < 1s,	
6	thermal dispersion yoke for high temperature fluids	
7	100mm high steel height adjustment for installing heat-insulation	
8	special version for ATEX zones	
9	manual override with declutchable gear box	
10	compressed air filter regulator	
11	All types of piloting solenoid valves	
12	all types of switch boxes	
13	all types of positioner	
14	quick exhaust	
15	flow-rate limiters - exhaust brakes	
16	air lock	

INSTALLATION IN AN ATEX ZONE

For 702-703+AP-RE automatic valves to be installed in ATEX 1, 2, 21 or 22 zones, this has to be specified when ordering. Our services will check of the assembly, the installation of an earthing braid, and will issue an assembly certificate. Our authorised technicians carry out these operations in the workshop. Please contact us. The special assembly instructions for valves must also be followed.


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DN	1/4" - 3/8"		1/2"		3/4"		1"		1 1/4"		1 1/2"		2"	
	RE51	RES51	RE51	RES64	RE51	RES64	RE51	RES76	RE64	RES76	RE64	RES86	RE76	RES101
A	65		72		86		105		111		127		145	
A Brides	/		130		150		160		180		200		230	
B	158.8		158	175	162	179	165.2	198.2	186	202	191.6	217.6	233.3	258.3
C	75		75	86	75	86	75	94	75	94	86	104	94	120
D	138		138	155	138	155	138	203	155	203	155	239	203	261
KG	2.37	2.47	2.49	3.22	3	3.73	3.64	5.78	4.9	6.52	6.14	9.14	10.53	14.3
KG Brides	/		3.86	4.98	4.96	5.68	6.16	8.3	8.69	10.37	10.36	13.36	16.42	20.4

Informations données à titre indicatif et sous réserve de modifications éventuelles

Ech/	Date :12/07/2019	Dessiné par : F.G.	Tolérances générales : +/- 0.2	Modifications	Date	REV.
ROBINET A TOURNANT SPHERIQUE 702-703/BALL VALVE 702-703 + ACTIONNEUR ALPHAIR RE/PNEUMATIC ACTUATOR ALPHAIR RE + BFC/LIMIT SWITCH BOX				Matière :		
				Poids <Kg> :		
				Traitement : SANS		
				45, Rue du Ruisseau		
38297 SAINT QUENTIN FALLAVIER				Plan n° Ens 1364		



RE SERIES

**PNEUMATIC ACTUATORS
WITH EXTERNAL ADJUSTMENT**

ROTATION 90°



English edition

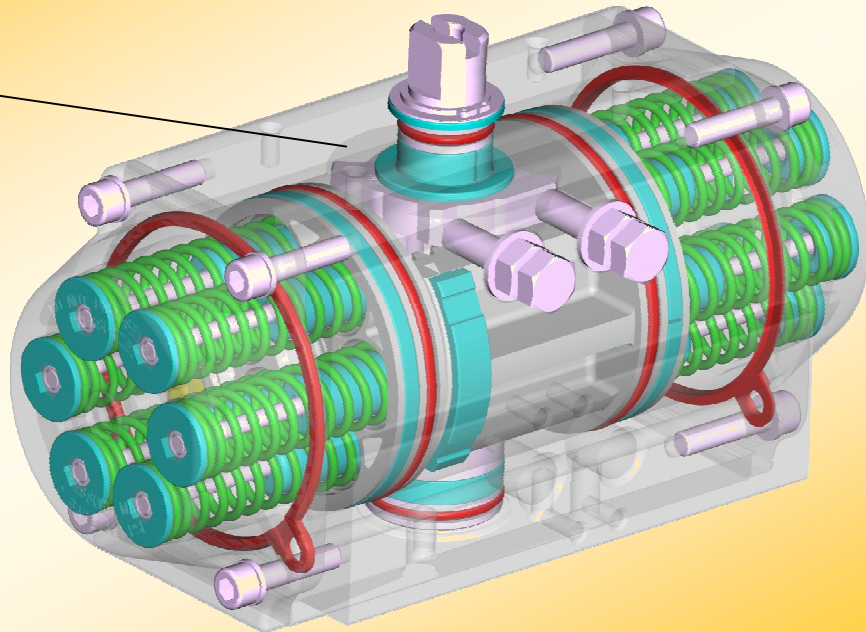
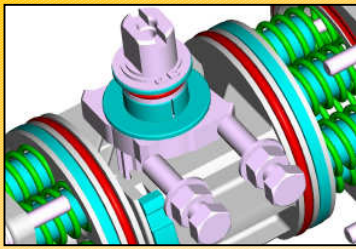


Alphaair

Distributed in FRANCE by
SECTORIEL

2017

ALPHAIR PNEUMATIC ACTUATORS EXTERNAL ADJUSTMENT New "RE" SERIES



The new series of ALPHAIR Pneumatic Actuators with special "External Adjustment" system meets every quality and precision requirement.

The new "External Adjustment" system guarantees maximum precision on rotation adjusting, for normal and heavy conditions, in any application field.

Suitable for every requirement, ALPHAIR Pneumatic Actuators with special "External Adjustment" system are carefully designed for maximum torque rating and maximum lifetime.

More compact, heavy and reliable, ALPHAIR Pneumatic Actuators with special "External Adjustment" system can be easily assembled on every kind of valve.

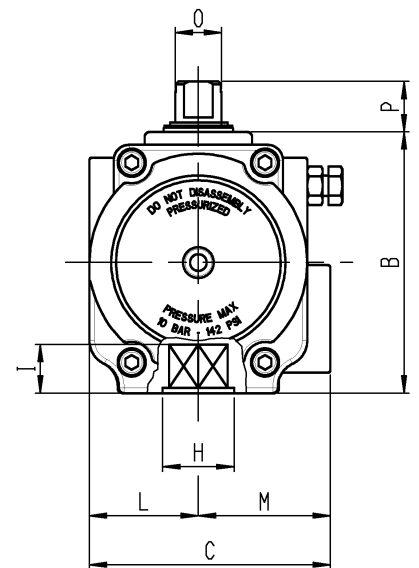
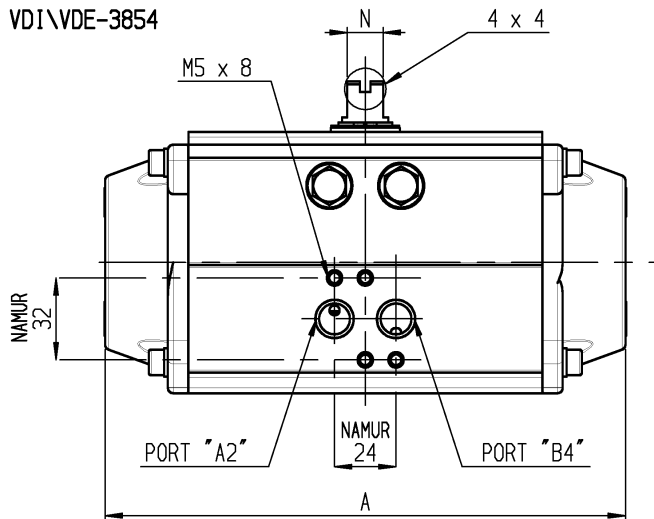
STANDARD VERSION FEATURES

- **EN AW 6063 extruded aluminium Body**, inside surface finishing Ra= 0,4-0,6. 25 µ Hard Anodizing.
- **EN AB 46100 die-cast aluminium alloy Pistons**, 15 micron Anodizing.
- **EN AB 46100 die-cast aluminium alloy Covers**, painted with 60-80 µ polyester powder.
- **Carbon steel Shaft**, 20 µ nickel-plated. Stainless Steel AISI 304 (A2) or AISI 316 (A4) as Optional.
- **External adjusting gear, made of Stainless Steel AISI 316 (A4).**
- **AISI 316 (A4) Stainless Steel Screws.**
- **NBR nitrile nubber seals.** FPM/FKM or SILICONE on request.
- Acetalic resin + 20% PTFE bearings, for low friction, easily replaceable for maintenance. PA66 or LEXAN on request.
- Pre-compressed Spring Cartridges, easily replaceable for maintenance, 60-80 micron polyester painted.
- High performances Syntetic Grease as standard grease. Special grease supplied for HIGH/LOW/VERY LOW temperatures.
- Several special protections available for chemical, pharmaceutical, food and industrial environments.
- Rotation adjustment $\pm 5^\circ$ in both opening and closing position. Assembly precision $\pm 1^\circ$, made by electronic devices.
- Double lower drilling for valve fastening and centering, according to ISO 5211-DIN 3337 Standards.
- Double square lower female shaft key (starlike), according to ISO 5211-DIN 3337 Standards for assembly on valves with square key on line (0°) and diagonal key (45°).
- Solenoid connections according to NAMUR VDI\VDE-3845 Standards.
- Top drilling for accessories fastening, and upper shaft end according to NAMUR VDI\VDE-3845 Standards.
- Position indicator on request, enabling switch-box assembly on top.
- Aluminium adhesive nameplates, with progressive serial number punched.
- Lubrication carried out by the manufacturer, guaranteed for min. 1.000.000 operations.
- Running test and 100% seal test carried out with electronic equipment and certification of every individual product.
- Standard execution for temperatures from -20°C to $+80^\circ\text{C}$ (optional, special execution for extreme temperatures).
- Conformity for use in explosive environment; Ex II 2 GD "c" protection type.
- According to EN 15714-3 design and manufacture standard requirements.

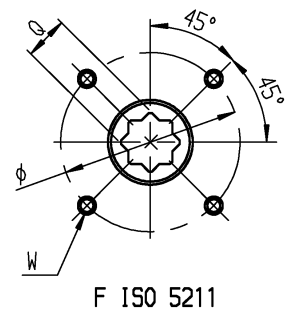
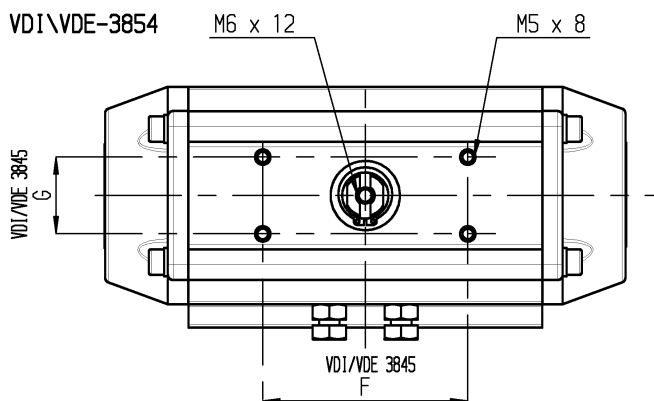
FEEDING	TEMPERATURE RANGE	SUPPLY PRESSURE	ROT. ADJUSTMENT
Dry or lubricated 50 um filtered compressed air	Standard $-20^\circ +80^\circ\text{C}$ ($-4 +175^\circ\text{F}$) HIGH Temperature $-20^\circ +150^\circ\text{C}$ ($-4 +300^\circ\text{F}$) LOW Temperature $-40^\circ +80^\circ\text{C}$ ($-40 +175^\circ\text{F}$) VERY LOW Temperature $-60^\circ +80^\circ\text{C}$ ($-76 +175^\circ\text{F}$)	8 bar/120 psi Continuous working - 10 bar/142 psi MAXIMUM	$\pm 5^\circ$ in both OPENING and CLOSING position

DIMENSIONS – European Sizes in millimetres

VDI/VDE-3854



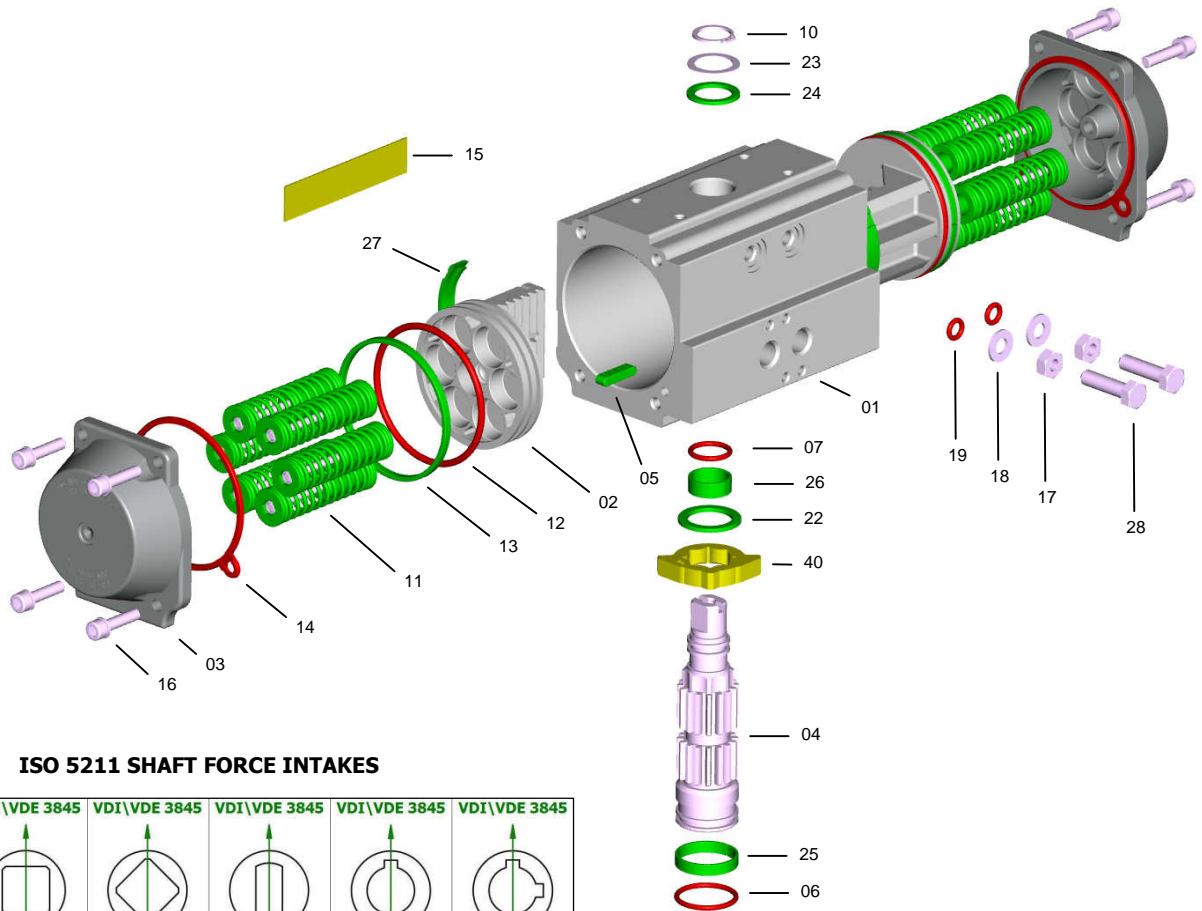
VDI/VDE-3854



POSITION	TYPE															
	RE 043	RE 051	RE 064	RE 076	RE 086	RE 101	RE 116	RE 126	RE 146	RE 161	RE 181	RE 201	RE 241	RE 271	RE 331	RE 421
A	141	138	155	203	239	261	304	333	398	424	482	528	604	684	850	940
B	62	69	86	102	112	127	145,5	157,5	177	196	220	246	298	332	414	542
C	63,5	75	86	94	104	120	133,5	144,5	164,5	182	203,5	222	300	352	400	528
VDI/VDE 3845 F x G	80 x 30 50 x 25	80 x 30					80 x 30 130 x 30			130 x 30						200 x 50
L	27	33,5	38	42,5	49	55	63,5	69,5	80,5	89	99,5	110	150	176	190	234
M	36,5	41,5	48	51,5	55	65	70	75	84	93	104	112	150	176	210	294
Port A Port B DIN 259	1/8" GAS-NPT			1/4" GAS-NPT									1/2" GAS-NPT			
N x O	8 x 12			14 x 18			27 x 36			32 x 42		42 x 60	55 x 80			
P	20						30			50						80
Q x I	9 x 10 11 x 13	9 x 10 11 x 13	9 x 10 11 x 13 14 x 16	11 x 13 14 x 16 17 x 20	14 x 16 17 x 20	14 x 16 17 x 20 22 x 25	17 x 20 22 x 25	17 x 20 22 x 25 27 x 29	22 x 25 27 x 29	22 x 25 27 x 29	27 x 29 36 x 39	27 x 29 36 x 39	36 x 39 46 x 50	36 x 39 46 x 50	*46 x 50 55 x 60	*55 x 60 75 x 80
F ISO 5211	F04	F04	F05/07	F05/07	F05/07	F07/10	F07/10	F07/10	F10/12	F10/12	F10/12	F14	F14	F16	F16/25	F25/30
Optional	F03/05	F03/05	F3/5/7			F5/7/10		F7/10/12			F14	F10/12	F(12)/16	F(12)/16		F(16)
Volume DE	0,180 lt	0,300 lt	0,500 lt	0,700 lt	1,000 lt	1,800 l	2,900 lt	3,700 lt	6,100 lt	7,900 lt	11,2 lt	14,4 lt	19,2 lt	32,2 lt	62,8 lt	131 lt
Volume SE	0,072 lt	0,120 lt	0,200 lt	0,280 lt	0,400 lt	0,720 l	1,160 lt	1,480 lt	2,440 lt	3,160 lt	4,480 lt	5,760 lt	7,680 lt	12,9 lt	25,1 lt	52,4 lt

POSITION	F ISO 5211											
	F03	F04	F03/05	F05	F05/07	F5/7/10	F07/10	F10/12	F14	F16	F25	F30
Ø (W)	Ø 36 (M5x8)	Ø 42 (M5x8)	Ø 36 (M5x8) Ø 50 (M6x9)	Ø 50 (M6x9)	Ø 50 (M6x9) Ø 70 (M8x12)	Ø 50 (M6x9) Ø 70 (M8x12) Ø 102 (M10x15)	Ø 70 (M8x12) Ø 102 (M10x15)	Ø 102 (M10x15) Ø 125 (M12x18)	Ø 140 (M16x24)	Ø 165 (M20x30)	Ø 254 (M16x24) N°8 FORI	Ø 298 (M20x35) N°8 FORI
H	25	30	25	35	35 (RE 086=40)	40	55	85 (RE 161=75)	100	130	200	200

CONSTRUCTION PARTS – SPECIFICATIONS



ISO 5211 SHAFT FORCE INTAKES

VDI\ VDE 3845	VDI\ VDE 3845	VDI\ VDE 3845	VDI\ VDE 3845	VDI\ VDE 3845	VDI\ VDE 3845
STANDARD ALPHAIR S = L/D	L	D	H	V	W

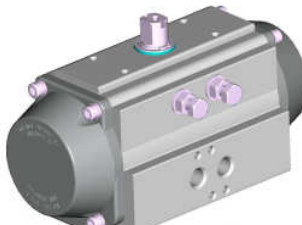
PART	QUANTITY	DESCRIPTION	MATERIAL	SPECIFICATION	PROTECTION
1	1	Body	Extruded aluminium alloy	EN AW 6063 T6	A - N - TF
2	2	Piston	Aluminium alloy	EN AB 46100 T6	A
3	2	Cover	Aluminium alloy	EN AB 46100 T6	N - V - TF
4	1	Shaft	Carbon steel Stainless Steel – optional	ASTM A-105 AISI 304 (A2) AISI 316 (A4)	N
5 *	2	Antiejection key	Acetalic resin – PA66 – PA66 – LEXAN		
6 *	1	Lower shaft O-Ring	NBR – FPM\FKM – Silicone – Silicone		
7 *	1	Upper shaft O-Ring	NBR – FPM\FKM – Silicone – Silicone		
10 *	1	Seeger ring	Carbon steel		N
11	0 ... 12	Spring cartridge	Carbon steel, PA 66, Stainless Steel	C-98	V
12 *	2	Piston O-Ring	NBR – FPM\FKM – Silicone – Silicone		
13 *	2	Piston head bearing	Acetalic resin – PA66 – PA66 – LEXAN		
14 *	2	Cover gasket	NBR – FPM\FKM – Silicone – Silicone		
15	1	Nameplate	Aluminium		
16	4 + 4	Cover fastening screw	Stainless Steel	AISI 304 (A2)	
17	2	Nut	Stainless Steel	AISI 304 (A2)	
18	2	Washer	Stainless Steel	AISI 304 (A2)	
19 *	2	O-Ring	NBR – FPM\FKM – Silicone – Silicone		
22 *	1	Gear antifriction washer	Acetalic resin – PA66 – PA66 – LEXAN		
23 *	1	Shaft thrust washer	Stainless Steel	AISI 304 (A2)	
24 *	1	Shaft antifriction washer	Acetalic resin – PA66 – PA66 – LEXAN		
25 *	1	Lower shaft pilot ring	Acetalic resin – PA66 – PA66 – LEXAN		
26 *	1	Upper shaft pilot ring	Acetalic resin – PA66 – PA66 – LEXAN		
27 *	2	Piston bearing	Acetalic resin – PA66 – PA66 – LEXAN		
28	2	Adjusting gear screw	Stainless Steel	AISI 304 (A2)	
40	1	Adjusting gear	Stainless Steel	AISI 316 (A4)	

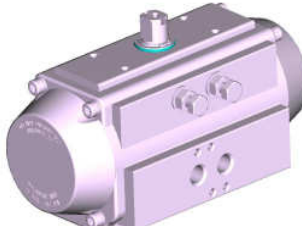
* SPARE PARTS SET: Standard, Special HIGH Temperatures, Special LOW Temperatures, Special EXTRA LOW Temperatures

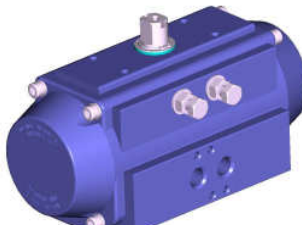
PROTECTIONS

A = Anodizing N = chemical Nickel-plating V = Painting TF = Anodizing+PTFE

COATINGS – MATERIAL TREATMENTS

	AV standard	DESCRIPTION				APPLICATION FIELD
		Body	Covers	Pistons	Shaft	
		Anodizing	Polyester painting	Anodizing	High phosphorous nickel-plating (12%) opt. AISI 304 (A2) opt. AISI 316 (A4)	- Industry, general use.
	Colour	Gray	Gray	Brown	Polished steel	
	Thickness	25 µ	60/80 µ	15 µ	20 µ	

	NN	DESCRIPTION				APPLICATION FIELD
		Body	Covers	Pistons	Shaft	
		High phosphorous nickel-plating (12%)	High phosphorous nickel-plating (12%)	Anodizing	High phosphorous nickel-plating (12%) opt. AISI 304 (A2) opt. AISI 316 (A4)	- Industry, general use. - Caustic soda. - Detergents. - Low alkaline solutions.
	Colour	Polished steel	Polished steel	Brown	Polished steel	
	Thickness	20 µ	20 µ	15 µ	20 µ	

	TF TF	DESCRIPTION				APPLICATION FIELD
		Body	Covers	Pistons	Shaft	
		Anodizing + PTFE coating	Anodizing + PTFE coating	Anodizing	High phosphorous nickel-plating (12%) opt. AISI 304 (A2) opt. AISI 316 (A4)	- Industry, general use. - Low alkaline and low acid solutions. - Marine environments. - High temperatures.
	Colour	Blue	Blue	Brown	Polished steel	
	Thickness	Anodizing 25 µ PTFE 15 µ	Anodizing 15 µ PTFE 15 µ	15 µ	20 µ	

ANODIZING

Anodizing is an electrolytic process that produces anodic coating on aluminum, called alumine, with high thickness. Alumine is one of the most hard known materials, with resistance values up to 400-600 HV (45-65 HRC); properties and features of Anodizing (alumine thickness 25 micron) are well know and appreciated both for mechanical and chemical resistance.

- **Best friction and corrosion resistance, best surface hardness, good thermic and electrical insulation.**

ELECTROLESS NICKEL-PLATING

Chemical nickel-plating is an electroless coating process that gives nickel layers at extremely constant thickness also on sharp angles, blind-holes, threads and grooves recess. During the process, nickel is combined with phosphor at a percentage of 12% (high-phosphor). The obtained surface hardness is about 400-480 HV (45-55 HRC).

- **Best friction and corrosion resistance, best surface hardness, best external appearance similar to S.S., increased resistance to alcali and detergents in sanitary and food applications.**

POLYESTER PAINTING

Polyester painting is obtained through powder coatings on polarized parts, by means of light differences in electrical potentials. After applications, parts are baked in order to polymerize and let the painting be spread to avoid micro-porosity. The best elasticity can be obtained at 60/80 micron thickness; a satisfactory adhesion can be assured by sandblasting or brushing, and by special degreasing baths of the rough pieces to be treated.

- **Better corrosion resistance, protection against crashes, better external appearance and several available colours, resistance to chemicals.**

ANODIZING + PTFE COATING

As further improvement of the hard anodising treatment on aluminium alloys, protective coatings made of PTFE are used; this material is known for its particular chemical and physical features. On these double treated surfaces, oxide hardness and low roughness (internal slipping parts) is summed to the chemical resistance and the excellent qualities as a thermic barrier of PTFE (external surface, subject to corrosion).

- **Better corrosion resistance, protection against high temperatures and crashes, extreme resistance to chemicals and in marine environments.**

AISI 304 (A2) OR AISI 316 (A4) STAINLESS STEEL SHAFT - OPTIONAL

AISI 304 (A2) and AISI 316 (A4) Stainless Steel shafts, with their great corrosion resistance, are recommended for special applications such as: marine and chemical environments, food and pharmaceutical industry, high temperature applications.



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