



INTRODUCTION

Many years of experience in industrial compressors field, developed with the design and production of oil filtration and air / oil separation systems, has naturally led FAI FILTRI to develop the air flow regulators. The FAI FILTRI intake valves are suitable for rotary screw compressors, **SSRA** series includes three sizes of valves "normally open", applicable to compressors from 3 to 30 kW (flow range from 0.3 to 4.5 m3/min).

The **SSRA** series valves are designed with modular philosophy (air filter connection, valve body, compressor pump mounting flange): this allows a large amount of combinations, with potential for application on most of the models of compressors in the European and global landscape.

SSRA top range valves perform the functions of flow rate control in load / unload mode, depressurization of the separator oil receiver and maintaining the minimum pressure, and internal closed loop air recirculation.

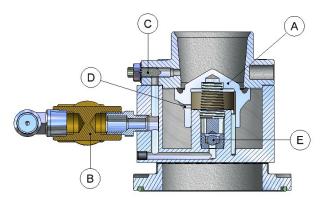
The SSRA series valves are also available in the simple "non return" version (no solenoid).

TECHNICAL DATA

MATERIALS AND TECHNICAL SOLUTIONS

SSRA series has body entirely made of anodized extruded aluminum and flanges in die cast. The shutter is treated with an anti-friction process. The sealing gasket is directly vulcanized into the seat.

WORKING PRINCIPLE

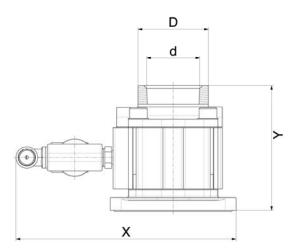


Load run: the solenoid valve B is energized (closed); under the shutter there is no pressure, the shutter opens as a result of the suction of the screw element.

No-load run, internal pressure venting phase: the solenoid valve B is not energized (open); the air coming from the separator tank closes the shutter A. System air is vented out through the nozzle C, making the depressurization of the separator receiver; the velocity of the venting phase can be managed through the nozzle C. Progressively internal pressure reaches the minimum value; in this condition the shutter is in a "floating" state. The nozzle D produces the closed loop air

recirculation, in order to avoid vibrations phenomena of the screw air end, especially in the first phase of the unload run. The non-return valve E prevents that, in emergency stop, oil invades the pneumatic control circuit.

DIMENSIONS



	SSRA10	SSRA20	SSRA30
X	179	160	186
Υ	85	92	121
D	Soo th	no polootio	a tabla
d	See u	ne selectior	т карге

SELECTION TABLE

** Y

(B **)

TriAB 69/I

T

S O

TriAB 51/I

TriAB 69

ABAC

TriAB 51

** V

B **

C **

MSC60 En 73 Eu53

FS26

** 0

ELGI

** Y

** Y

C55 C77

ATLAS COPCO

B **

VMX45RD

VMX37D VMX22R

AERZENER

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SSRA30

SSRA20 ** Y

SSRA10 ** V

Air end model

Manufacturer

"t" parameter

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	n			SSRA30			030		SSRA30		79	20	7	e	10	10	1	2		SSRA30	A	æ	U	0	Е		SSRA30	0	1	2		SSRA30	А	В
finition	t			SSRA20		020			SSRA20	15		9	1	2	ന	4	i.	18		SSRA20	A	8	U	Q	E		SSRA20	0	1	2		SSRA20	А	B ("p "= 2)
Parameters for P/N definition	_		zzz parameter	SSRA10	010			"p" parameter	SSRA10	1	2	m		0	,	5			"q" parameter	SSRA10	A	8	U	Q	E	"r" parameter	SSRA10	0		Ē	"u" parameter	SSRA10	A	Ü
Paramet	ф	=		nodel:	0.3 – 1.2 m ³ /min	0.6 - 2.4 m ³ /min	1.1 – 4.5 m³/min	=	nodel:	40 mm	40 mm + 1" BSP female	3/4" BSP tap.male	48 mm	51.5 mm	48 mm + 1"1/4 BSP female	51.5 mm + 1"1/4 BSP female	59.5 mm	70 mm	=	nodel:	24 VAC 50/60 Hz	110 V 50 Hz 120 V 60 Hz	200 V 50 Hz 220 V 60 Hz	230 V 50 Hz 240 V 60 Hz	24 VDC		nodel:	no connection	1/8" BSP female	1/8" BSP female plugged		nodel:	.0	°06
	р			Valve model:	3-7.5 KW 4-10 HP		30 KW 40 HP		Valve model:			r or thr								Valve model:				e əBelo,			Valve model:		Connection for air filter vacuum	switch		Valve model:		Inlet connection axis
Type	SSRA zzz					Valv Pelec	s			Ja	mete	eib n	oit	၁ခ၊	uuoo	filter	i vijy	7				əvle,	v bior	solet					Connection for	WS				Inlet conn

Z

	0220	-		C
	ENDURO3			30
South of the state	ENDURO6	-	B **	
Caldiel Delive	ENDURO12	- 2		C
ROTAIR	R186DF		J	* V
	B40	** A	A ** (B **)	0.0
ROTORCOMP	B60	1	A ** (B **)	31
	B101	-		E
	SCA7	** 3		7
TMC	SCA8	Q	***	30
	SCAG		9	a

O

** Y

C ** ** V

LC44 CE55RW

GHH-RAND

FS50FM

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** 8

Note:

** means "die casted" flange

silve SSRA20, fitting on GHH CE55RW (and others), having solenoid valve 24 VAC, ugged connection for vacuum switch (air filter clogging detection), with rubber SSRA 020 2 A 2 A B at inlet connection (diameter = 51.5 mm)