

INTAKE VALVES



Series **SSRA**

Components for compressors FAI FILTRI

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.

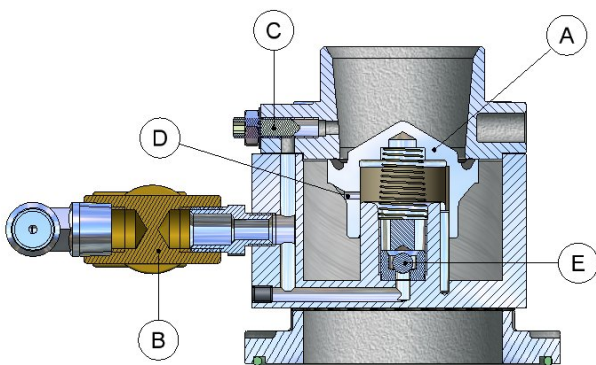
The **SSRA** series valves are also available in the simple "non return" version (no solenoid).

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

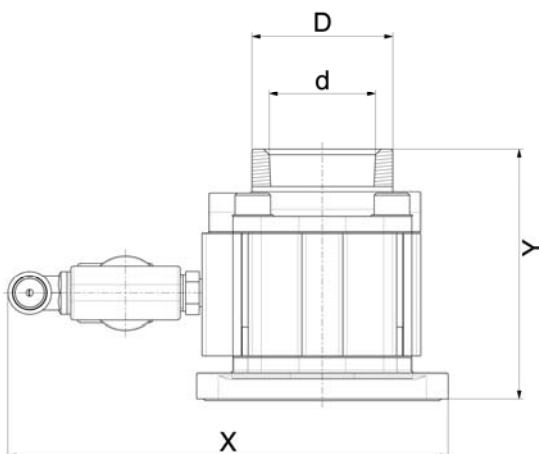


Load run: the solenoid valve B is energized (closed); under the shutter there is no pressure, the shutter opens as a result of the suction of the screw element.

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
Y	85	92	121
D	See the selection table		
d			

SELECTION TABLE

Type	Parameters for P/N definition				
SSRA zzz	p	q	r	t	u
Valve selection	"zzz" parameter				
	Valve model:	SSRA10	SSRA20	SSRA30	
	3 – 7.5 kW 4 - 10 HP	010			
	5.5 – 15 kW 7.5 - 20 HP		020		
Air filter connection diameter	"p" parameter				
	Valve model:	SSRA10	SSRA20	SSRA30	
	40 mm	1			
	40 mm + 1"	2			
Solenoid valve	"q" parameter				
	Valve model:	SSRA10	SSRA20	SSRA30	
	24 VAC 50/60 Hz	A			
	110 V 50 Hz	B			
Connection for air filter vacuum switch	"r" parameter				
	Valve model:	SSRA10	SSRA20	SSRA30	
	no connection	0			
	1/8" BSP female	-	1		
Inlet connection axis	"u" parameter				
	Valve model:	SSRA10	SSRA20	SSRA30	
	0°	A			
	90°	-			

"t" parameter				
Manufacturer	Air end model	SSRA10	SSRA20	SSRA30
ABAC	TriAB 51	A **	A **	-
	TriAB 51/i	-	S	-
	TriAB 69	-	C	A **
	TriAB 69/i	-	(B **)	-
AERZENER	VMX22R	-	-	D
	VMX37D	-	-	-
	VMX45RD	-	-	-
	C40	B **	-	-
ATLAS COPCO	C55	A **	A **	-
	C77	-	-	A **
ELGI	En53	C **	-	-
	En73	-	B **	-
	MSC60	C **	-	-
	FS26	-	B **	-
FINI	FS50FM	-	B **	E
	LC44	C **	-	-
	CE55RW	A **	A **	-
	OS70	-	-	C
GHH-RAND	ENDURO3	-	-	-
	ENDURO6	-	B **	-
	ENDURO12	-	-	C
	R186DF	-	C	A **
ROTAIR	B40	A **	A ** (B **)	-
	B60	-	A ** (B **)	-
	B101	-	-	E
	SCA7	C **	-	-
ROTORCOMP	SCA8	D	B **	-
	SCA9	-	-	B
TMC	SCA7	C **	-	-
	SCA8	D	B **	-
	SCA9	-	-	B
	SCA7	C **	-	-

Note: ** means "die casted" flange

EXAMPLE: SSRA 020 2 A 2 A B

Inlet valve SSRA20, fitting on GHH CE55RW (and others), having solenoid valve 24 VAC, with plugged connection for vacuum switch (air filter clogging detection), with rubber elbow at inlet connection (diameter = 51.5 mm)



Il mondo Fai Filtri é diventato più grande per offrirvi di più
Fai Filtri's world has grown bigger to offer you more and more

FAI FILTRI s.r.l. - (Head Quarter)
 Strada Provinciale Francesca, 7
 24040 Pontirolo Nuovo (BG) - Italy
 Tel. ++39 0363 880024 -
 Fax ++39 0363 330177
faifiltri@faifiltri.it
www.faifiltri.it

www.faifiltri.it
faifiltri@faifiltri.it

Divisione Vendite Italia
 Tel. +39 0363 88 00 24
 Fax. +39 0363 33 01 77
vendite@faifiltri.it

Divisione Vendite Export
Sales Department
 Tel. +39 0363 88 00 24
 Fax. +39 0363 33 01 77
sales@faifiltri.it

Divisione Qualità
Quality Department
 Tel. +39 0363 88 00 24
 Fax. +39 0363 33 07 77
quality@faifiltri.it

Divisione Tecnica
Technical Department
 Tel. +39 0363 88 00 24
 Fax. +39 0363 33 07 77
technical@faifiltri.it

Divisione Acquisti
Purchase Department
 Tel. +39 0363 88 00 24
 Fax. +39 0363 33 07 77
purchasing@faifiltri.it

Pianificazione Produzione
Planning Department
 Tel. +39 0363 88 00 24
 Fax. +39 0363 33 07 77
pianificazione@faifiltri.it

Amministrazione
Account Department
 Tel. +39 0363 88 00 24
 Fax. +39 0363 33 07 77
account@faifiltri.it

FAI FILTRI Canada Inc.
 2871 Brighton Road
 L6H 6C9 Oakville,
 Ontario - Canada
 Phone ++001 9058298037
 Fax ++001 9058292039
faifiltri@faifiltri.com
www.faifiltri.com

FAI FILTRI Malaysia Sdn. Bhd.
 5, Jalan usj 1/6c, su bang jaya
 47610 Selangor Darul Ehsan
 Malaysia
 Phone 00603 8023 9878
 Fax 00603 8023 6878
faifiltri@tm.net.my



faifiltri®
 A Quality Filtration Company