SCI AIR VALVES

SINGLE SMALL ORIFICE

SINGLE LARGE ORIFICE

DOUBLE ORIFICE

HIGH SPEED

SCI AIR VALVES WITH RESILIENT ORIFICES

SCI AIR VALVES have been especially designed to allow the most efficient method of releasing or admitting air during the filling and emptying pipelines or vessels and the release of air accumulating in pipeline during normal working conditions.

SCI CORPORATION Co.,Ltd.
Factory: 1/12 Moo 2, Samutsakorn Industrial Estate, Soi 7,
Rama 2 Road, Tahsai, Muang, Samutsakorn 74000, Thailand
Tel: (6634)440-130 Fax: (6634)440-137 E-mail: sci@scivalve.com

ISO 9001:2015
File No.438881 QM
ISO 14001:2015
File No.438881 UM

SPECIAL FEATURES

Resilient orifices	- Seal from very low to high working pressure (0.1-25.0 bar)
ABS float	- Proven long lasting material Specific gravity (0.75-0.80)
No protruding levers	- This features reduce maintenance and servicing to a minimum
No premature closing	
Standard	- Comply with JIS B 2063

SMALL ORIFICE

Automatically releases accumulated air in pipeline.

LARGE ORIFICE

Automatically releases or admits large volume of air for efficient filling or emptying of pipelines to protect against vacuum or pipeline damage.

DOUBLE ORIFICE AND HIGH SPEED (QUICK TYPE)

The combination of small and large orifice becomes a single unit.

DOUBLE ORIFICE WITH INTEGRAL ISOLATING VALVE

The combination of small and large orifice plus integral isolating valve becomes a single unit.

MATERIALS USED IN CONSTRUCTION

Body and Cover	: Cast Iron or Spheroidal Graphite Iron
Orifice and Sealing Ring	: Moulded Synthetic Rubber
Float	: ABS (Acrylonitrie Butadiene Styrene) / Stainless Steel
Float guide	: ABS / Gunmetal / Cast Iron

SCI CORPORATION Co.,Ltd.
Factory: 1/12 Moo 2, Samutsakorn Industrial Estate, Soi 7,
Rama 2 Road, Tahsai, Muang, Samutsakorn 74000, Thailand
Tel: (6634)440-130 Fax: (6634)440-137 E-mail: sci@scivalve.com

ISO 9001:2015
File No.438881 QM
ISO 14001:2015
File No.438881 UM

SINGLE SMALL ORIFICE VALVE SCREWED END & FLANGE END

SIZE 25-150 MM.

SIZE DN	A	A1	ØB	WEIGHT (kg)	
				FIG 411	FIG 412
25	176	144	114	3	4
40	192	155	126	4.5	5
50	250	209	190	10	13
80	262	213	200	13	17
100	272	217	220	17	22
150	_	295	230	_	35

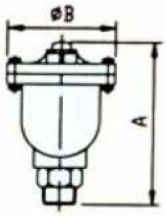


FIG.411
SCREW END

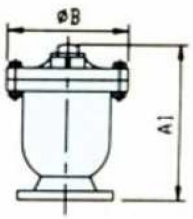


FIG.412
FLANGE END

SINGLE LARGE ORIFICE VALVE

SIZE 50-150 MM.

SIZE DN	A	ØB	WEIGHT (kg)
50	245	230	13
80	265	240	17
100	295	250	22
150	330	270	35

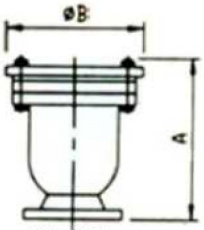


FIG.413

DOUBLE ORIFICE WITHOUT INTEGRAL VALVE

SIZE 50-300 MM.

SIZE DN	A	A1	B	B1	C	C1	WEIGHT(kg)	
							FIG415	FIG416
50	245	245	300	300	150	150	34	20
80	300	300	372	330	184	185	45	29
100	345	325	418	379	192	190	56	45
150	395	345	454	419	218	220	86	50
200	440	380	560	527	294	295	150	79
250	515	425	714	647	320	320	195	132
300	555	505	826	760	360	360	244	214

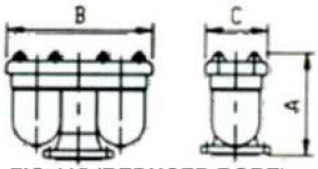


FIG.415 (REDUCED BORE)

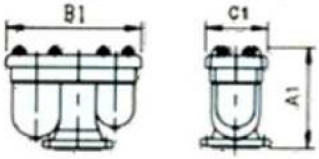


FIG.416 (NUEQUAL FLOAT)

DOUBLE ORIFICE WITH INTEGRAL VALVE

SIZE 50-300 MM.

SIZE DN		A	A1	B	C	WEIGHT (kg)
FIG 414	FIG 404					
50	_	_	410	386	150	40
80	50	435	445	475	185	49
100	80	450	485	505	190	70
150	100	520	545	550	220	92
200	150	600	620	670	295	152
250	200	690	705	815	320	235
300	250	_	775	860	360	340

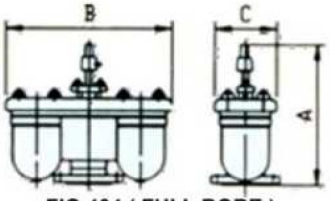


FIG.404 (FULL BORE)

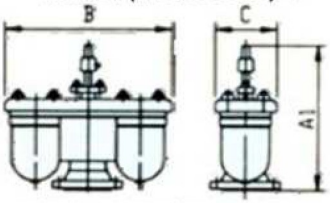


FIG.414 (REDUCED BORE)

HIGH SPEED (QUICK TYPE) VALVE

SIZE 80-200 MM.

SIZE DN	A	ØB	WEIGHT (kg)
80	280	230	30
100	358	250	34
150	490	380	86
200	528	440	110

FIG.430

SCI CORPORATION Co.,Ltd.
Factory: 1/12 Moo 2, Samutsakorn Industrial Estate, Soi 7,
Rama 2 Road, Tahsai, Muang, Samutsakorn 74000, Thailand
Tel: (6634)440-130 Fax: (6634)440-137 E-mail: sci@scivalve.com

ISO 9001:2015
File No.438881 QM
ISO 14001:2015
File No.438881 UM

DESIGN SPECIFICATIONS

RATINGS AND FLANGED CONNECTIONS				
WORKING PRESSURE	MAXIMUM TEMPERATURE	TEST HYDROSTATIC	FLANGE END CONNECTION	
bar	°C	bar	ISO.7005-2 BS 4504	OTHER FLANGES
10	90	20	PN 10	Flanges to BS10,ANSI B16.1
16	90	32	PN 16	JIS, or other standard
25	90	50	PN 25	can be supplied

TYPE OF ISOLATING VALVE

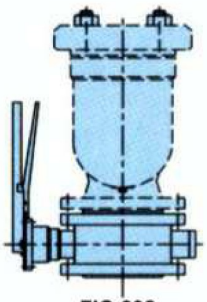


FIG.238
BUTTERFLY VALVE

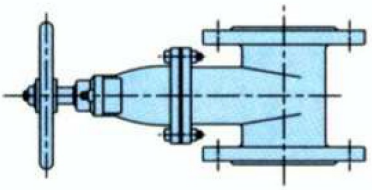


FIG.161
GATE VALVE

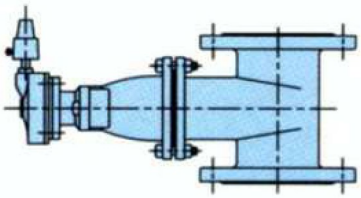
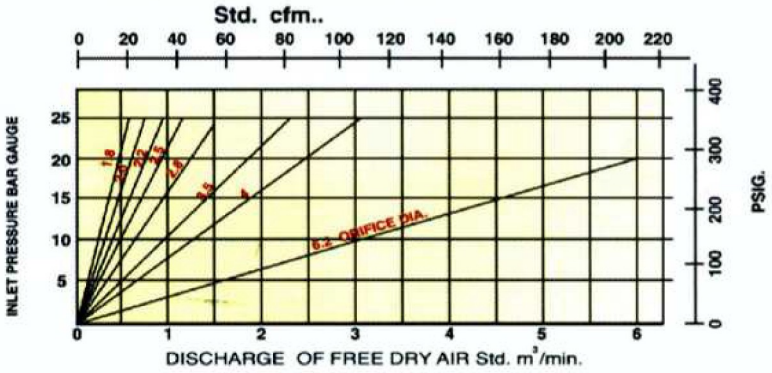


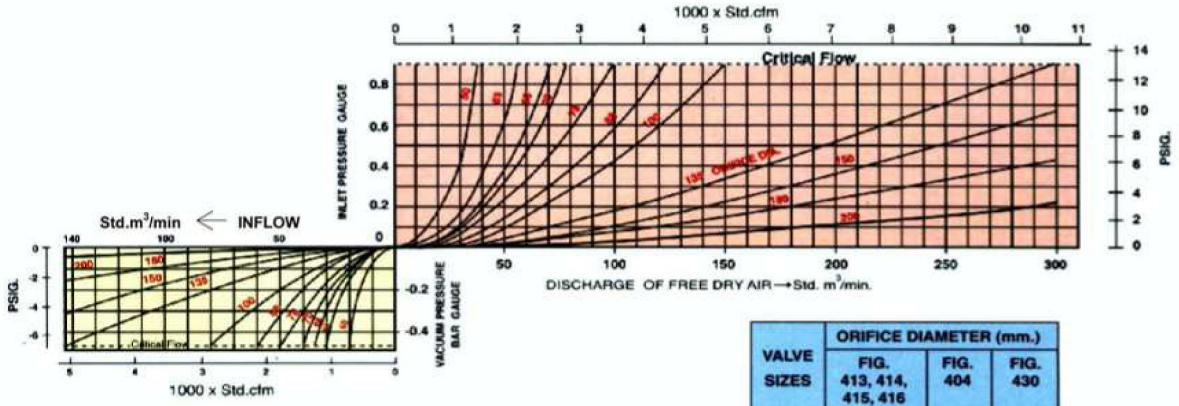
FIG.163
GATE VALVE WITH METER GEARING

CHARACTERISTIC CURVE OF AIR DISCHARGE
FOR SMALL ORIFICE AIR VALVE



VALVE SIZES	ORIFICE DIAMETER (mm.)			
	FIG. 411, 412, 414, 415	FIG. 404	FIG. 430	FIG. 416
25	1.8	—	—	—
40	2	—	—	—
50	2.2	2.2	2.2	—
80	2.2	2.5	2.2	2
100	2.5	2.8	2.8	2.2
150	2.8	3.5	4	2.2
200	3.5	4	6.2	2.5
250	4	5.2	—	2.8
300	6.2	—	—	3.5

CHARACTERISTIC CURVE OF AIR DISCHARGE & INFLOW
FOR LARGE ORIFICE AIR VALVE



VALVE SIZES	ORIFICE DIAMETER (mm.)		
	FIG. 413, 414, 415, 416	FIG. 404	FIG. 430
50	63	68	50
65	63	—	—
80	68	70	80
100	70	78	100
150	78	88	150
200	88	100	200
250	100	135	—
300	135	—	—

SCI CORPORATION Co.,Ltd.
Factory: 1/12 Moo 2, Samutsakorn Industrial Estate, Soi 7,
Rama 2 Road, Tahsai, Muang, Samutsakorn 74000, Thailand
Tel: (6634)440-130 Fax: (6634)440-137 E-mail: sci@scivalve.com

ISO 9001:2015
File No.438881 QM
ISO 14001:2015
File No.438881 UM