

TOPSAFE SPECIFICATION SHEET for BREATHER VALVE with FLAME ARRESTER

GENERAL SPECIFICATION

1	TAG NO.	-	-	
2	TANK NO.	-	-	
3	TANK NAME	-	-	
4	TANK DIAMETER	mm	-	-
5	TANK HEIGHT	mm	-	-
6	CAPACITY OF TANK	m ³	-	-
7	TANK DESIGN PRESSURE	mmH ₂ O	-	-
8	TANK DESIGN VACUUM	mmH ₂ O	-	-
9	OPERATION PRESSURE	mmH ₂ O	-	-
10	OPERATING TEMPERATURE	°C	-	-
11	FLASH POINT	°C	-	-

VENTING CAPACITY SPECIFICATION

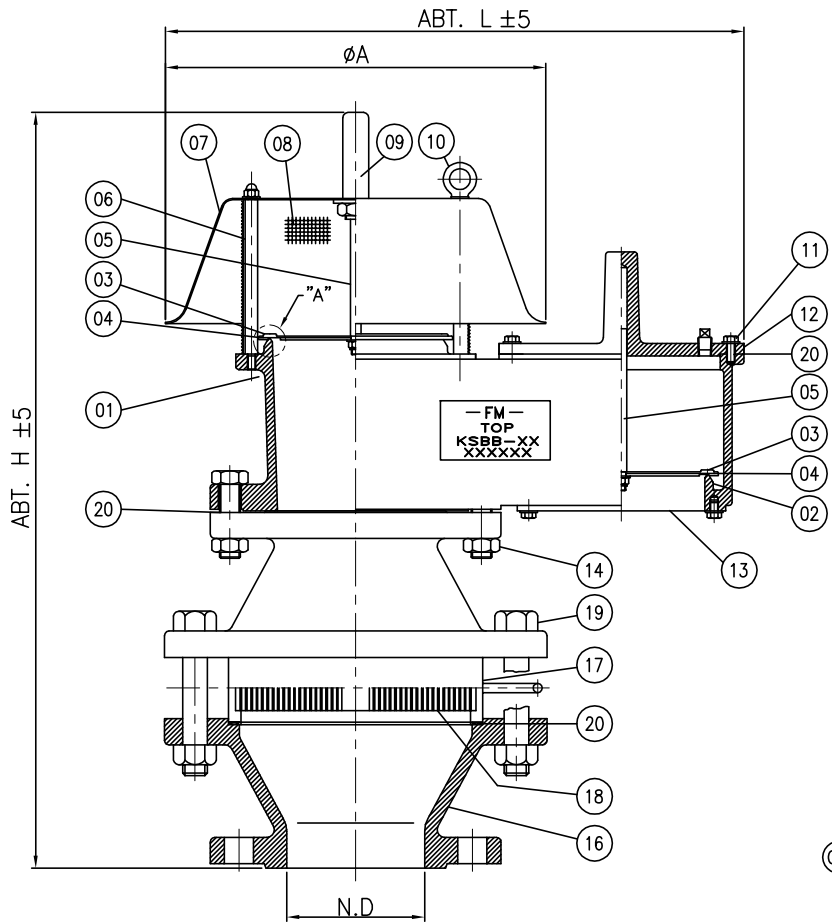
12	CODE or STD.	API 2000	API 2000	
13	TOTAL OUT-BREATHING	Nm ³ /hr	-	-
14	VALVE OUT-CAPACITY	Nm ³ /hr	4,817.4 @ 400 mmW.C	262.3 @ 200 mmW.C
15	SETTING PRESSURE	mmH ₂ O	200	100
16	TOTAL IN-BREATHING	Nm ³ /hr	-	-
17	VALVE IN-CAPACITY	Nm ³ /hr	802.9 @ -120 mmW.C	96.3 @ -50 mmW.C
18	SETTING VACUUM	mmH ₂ O	-60	-25

PRESSURE & VACUUM RELIEF VALVE SPECIFICATION

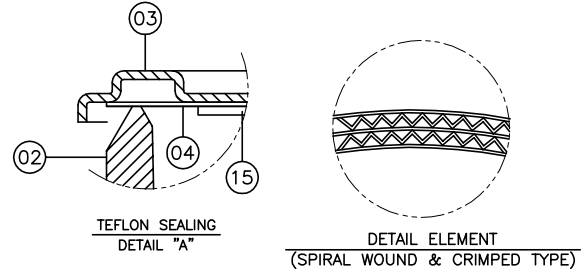
19	TYPE	END-LINE	END-LINE	
20	MODEL	KSBBF1-6"	KSBBF1-2"	
21	MATERIALS			
	(1) BODY	B26-319.F	B26-319.F	
	(2) DISC	A240-304	A240-304	
	(3) COVER	B26-319.F	B26-319.F	
	(4) DIAPHRAGM	FEP	FEP	
	(5) FLAME ARRESTER	B26-319.F	B26-319.F	
	(6) ELEMENT	A240-316L	A240-316L	
	(7) GASKET	NON-ASBESTOS	NON-ASBESTOS	
22	SIZE INLET/OUTLET	6" /	2" /	
23	FLANGE CONNECTION	ANSI 150# R.F	ANSI 150# R.F	
24	QUANTITY	2	3	
25	DRAWING NO.	KSBBF1-ZZ-ZZ	KSBBF1-ZZ-ZZ	

NOTE

PROJECT NAME		DOCUMENT NO.	
JOB NO.		REVISION NO.	



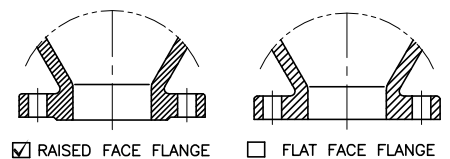
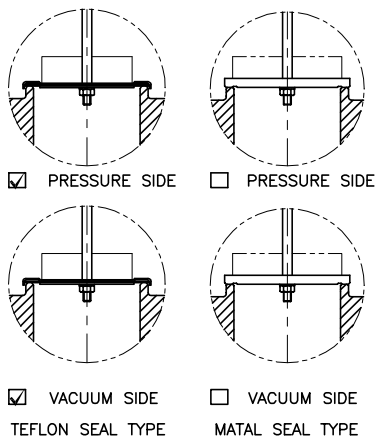
FRONT CROSS SECTION VIEW



DIMENSION TABLE (WEIGHT TYPE)

UNIT : mm

MODEL	N.D	ØA	L	H	WEIGHT	REMARK
KSBBFI-40A"	40	210	310	423.2	27kg±2	
KSBBFI-2"	50	210	310	423.2	27kg±2	Q : 3
KSBBFI-3"	80	260	393	483.1	42kg±3	
KSBBFI-4"	100	280	443	507.2	61.5kg±4	
KSBBFI-6"	150	365	555	687.2	93.5kg±6	Q : 2
KSBBFI-8"	200	450	691	776.2	147kg±10	
KSBBFI-10"	250	520	800	930.2	238.5kg±15	
KSBBFI-12"	300	590	925	1080.2	301kg±20	



NAME PLATE DETAIL

BREATHER VALVE WITH FLAME ARRESTER			
TAG NO.	TYPE		
MFG. NO.	MAT L		
SETTING PRESS.	mmW.C/VAC.	mmW.C	
FLANGE			
TOPSAFE CO., LTD. TEL : 82-55-338-9986 / topsafe@topsafe.co.kr			

NO.	DESCRIPTION	MATERIAL					Q'TY	REMARK
		SPEC.1	SPEC.2	SPEC.3	SPEC.4	SPEC.5		
1	BB BODY	B26-319.F	A216-WCB	A351-CF8	A351-CF8M	A351-CF3M	1	
2	VACUUM SEAT	A351-CF8	A351-CF8	A351-CF8	A351-CF8M	A351-CF8M	1	
3	P/V DISC	A240-304	A240-304	A240-304	A240-316	A240-316	2	
4	P/V DIAPHRAGM	FEP	FEP	FEP	FEP	FEP	2	
5	P/V STEM	A276-304	A276-304	A276-304	A276-316	A276-316	2	
6	GUIDE POST	A276-304	A276-304	A276-304	A276-316	A276-316	-	
7	HOOD	A240-304	A240-304	A240-304	A240-304	A240-304	1	
8	BIRD SCREEN	A240-304	A240-304	A240-304	A240-304	A240-304	1	
9	STEM GUIDE	MC NYLON	MC NYLON	MC NYLON	MC NYLON	MC NYLON	1	
10	LIFTING LUG	SUS304	SUS304	SUS304	SUS304	SUS304	-	
11	TEST PLUG	A240-304	A240-304	A240-304	A240-304	A240-304	1	
12	VACUUM COVER	B26-319.F	SS400	A240-304	A240-316	A240-316	1	
13	VACUUM SCREEN	A240-304	A240-304	A240-304	A240-304	A240-304	1	
14	STUD BOLT/NUT	SUS304	SUS304	SUS304	SUS304	SUS304	-	
15	P/V SUPPORT PLATE	A240-304	A240-304	A240-304	A240-316	A240-316	2	
16	KSFI BODY	B26-319.F	A216-WCB	A351-CF8	A351-CF8M	A351-CF3M	2	
17	ELEMENT RING	A240-304	A240-304	A240-304	A240-316	A240-316	1	
18	ELEMENT	A240-316L	A240-316L	A240-316L	A240-316L	A240-316L	1	
19	BOLT/NUT	SUS304	SUS304	SUS304	SUS304	SUS304	-	
20	GASKET	NON-ASBESTOS	NON-ASBESTOS	NON-ASBESTOS	NON-ASBESTOS	NON-ASBESTOS	4	

NOTE

- FIELD CONNECTION FLANGE STANDARD
ANSI 150# R.F
 - FLANGE SURFACE
SMOOTH FINISH
✓ 125 - 250 AARH SPIRAL SERRATION
 - SERVICE CONDITION
SETTING PRESSURE & VACUUM $\frac{200}{100} / \frac{-60}{-25}$ mmW.C (6")
 - PAINT SPECIFICATION
✓ NO PAINT
BLUE EPOXY 150 mic. (IN/OUTSIDE) FOR CARBON STEEL
OWNER REQUIREMENT
 - DESIGN STANDARD
- API 2000 REGULATION
- FIELD INFORMATION
- SUPPLY Q'TY
1.1.KSBBFI-6" (Q:2)
1.2.KSBBFI-2" (Q:3)
 - TAG & ITEM NO.
AS PER DATA SHEET

0	2025.11.14	FOR REFERENCE	S.W	S.J.H	H.S.B
NO.	DATE	DESCRIPTION	DWG.	CHK.	APP.
TITLE		BREATHER VALVE with FLAME ARRESSTER			
		General Arrangement Drawings			
MODEL		KSBBFI TYPE			
SCALE		N : S DWG NO. KSBBFI-ZZ-ZZ			
TOPSAFE CO., LTD					

TOPSAFE SAFETY EQUIPMENTS

PRESSURE/VACUUM RELIEF VALVE WITH FLAME ARRESTER

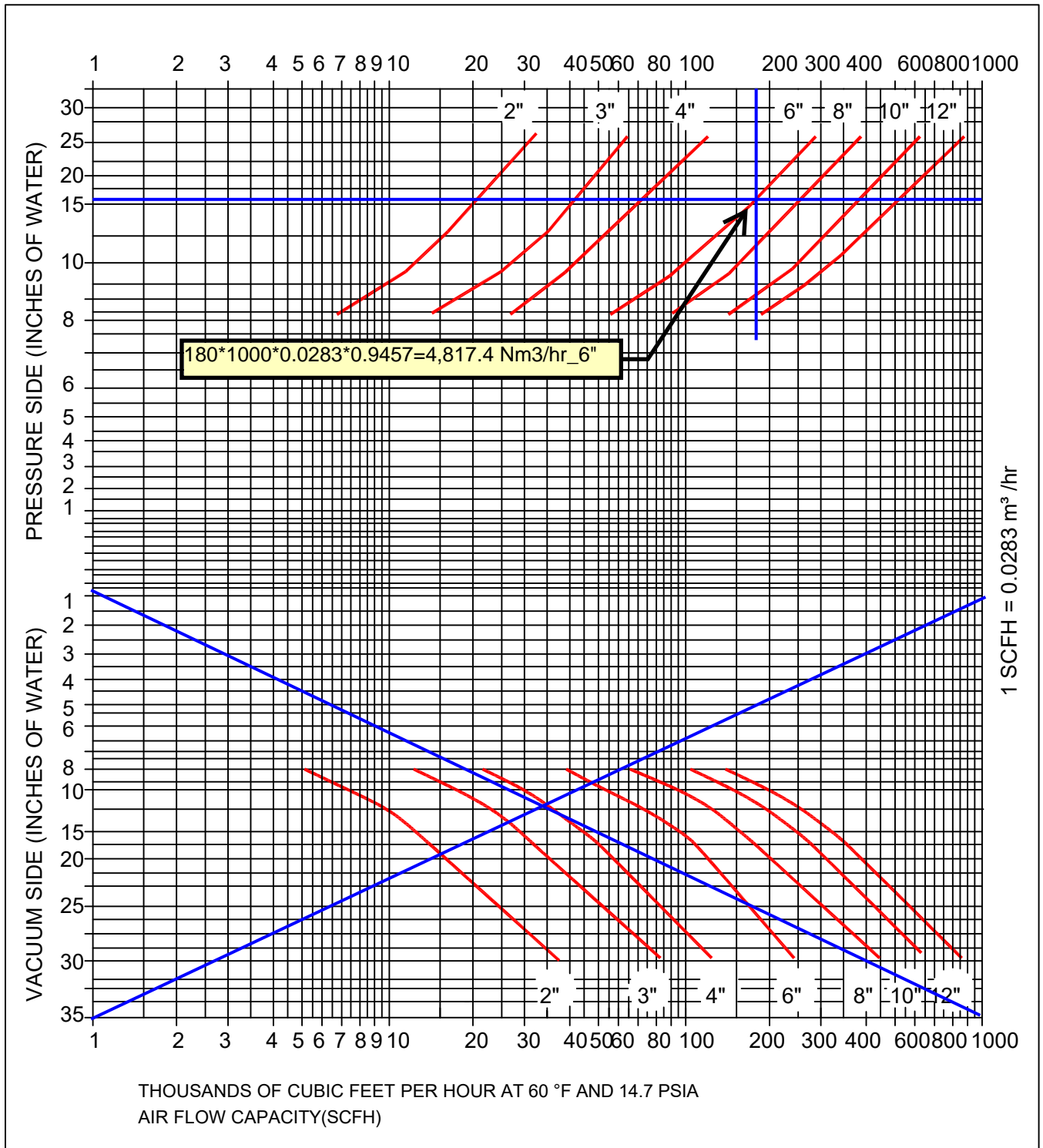
FLOW CAPACITY CURVE

(FOR BREATHER VALVE WITH FLAME ARRESTER)

THOUSANDS OF CUBIC FEET PER HOUR AT 60 °F AND 14.7 PSIA

AIR FLOW CAPACITY(SCFH)

SET AT 8 INCHES(=200mmW.C)



TOPSAFE SAFETY EQUIPMENTS

PRESSURE/VACUUM RELIEF VALVE WITH FLAME ARRESTER

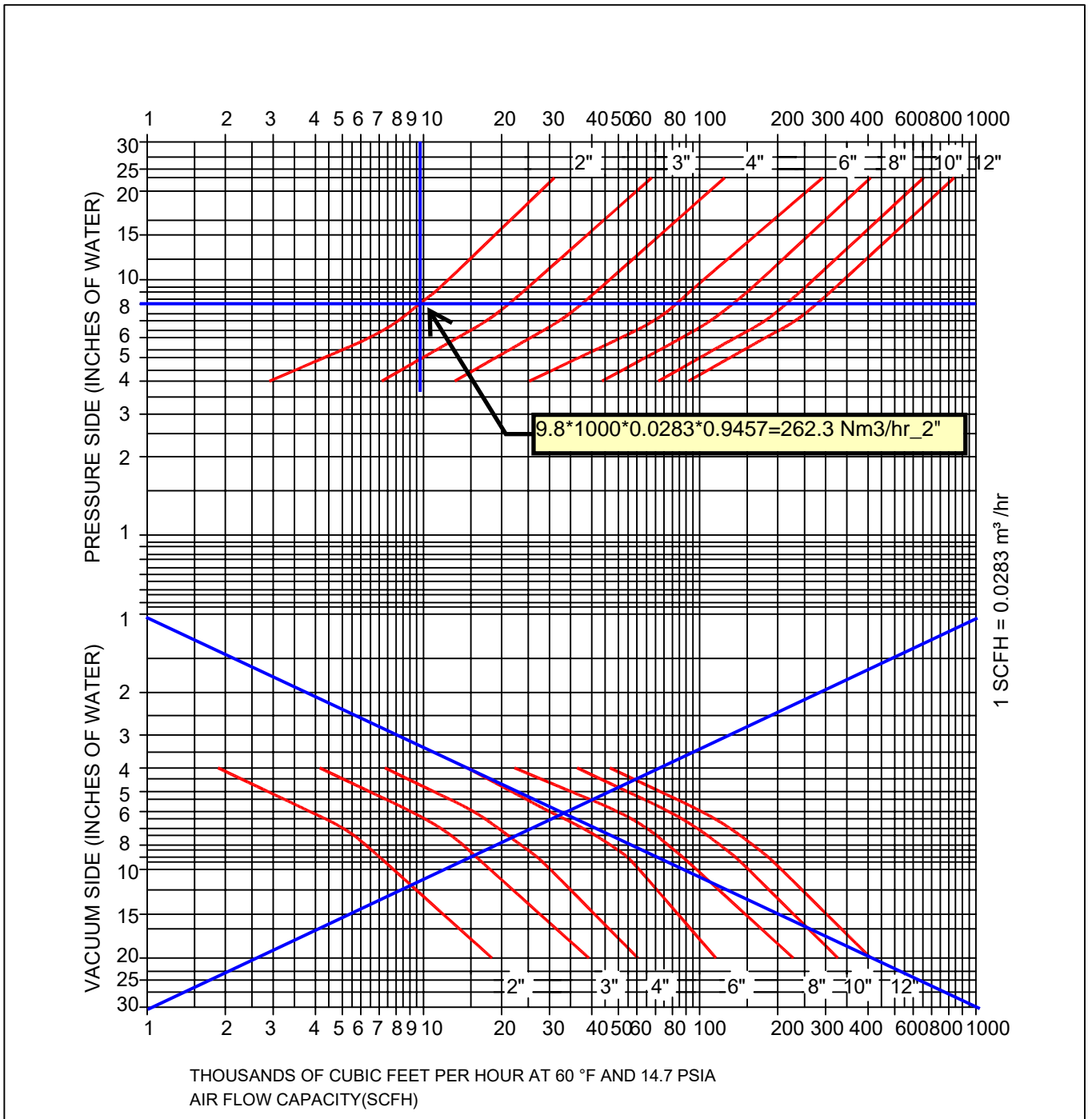
FLOW CAPACITY CURVE

(FOR BREATHER VALVE WITH FLAME ARRESTER)

THOUSANDS OF CUBIC FEET PER HOUR AT 60 °F AND 14.7 PSIA

AIR FLOW CAPACITY(SCFH)

SET AT 4 INCHES (100mmAq)



TOPSAFE SAFETY EQUIPMENTS

PRESSURE/VACUUM RELIEF VALVE WITH FLAME ARRESTER

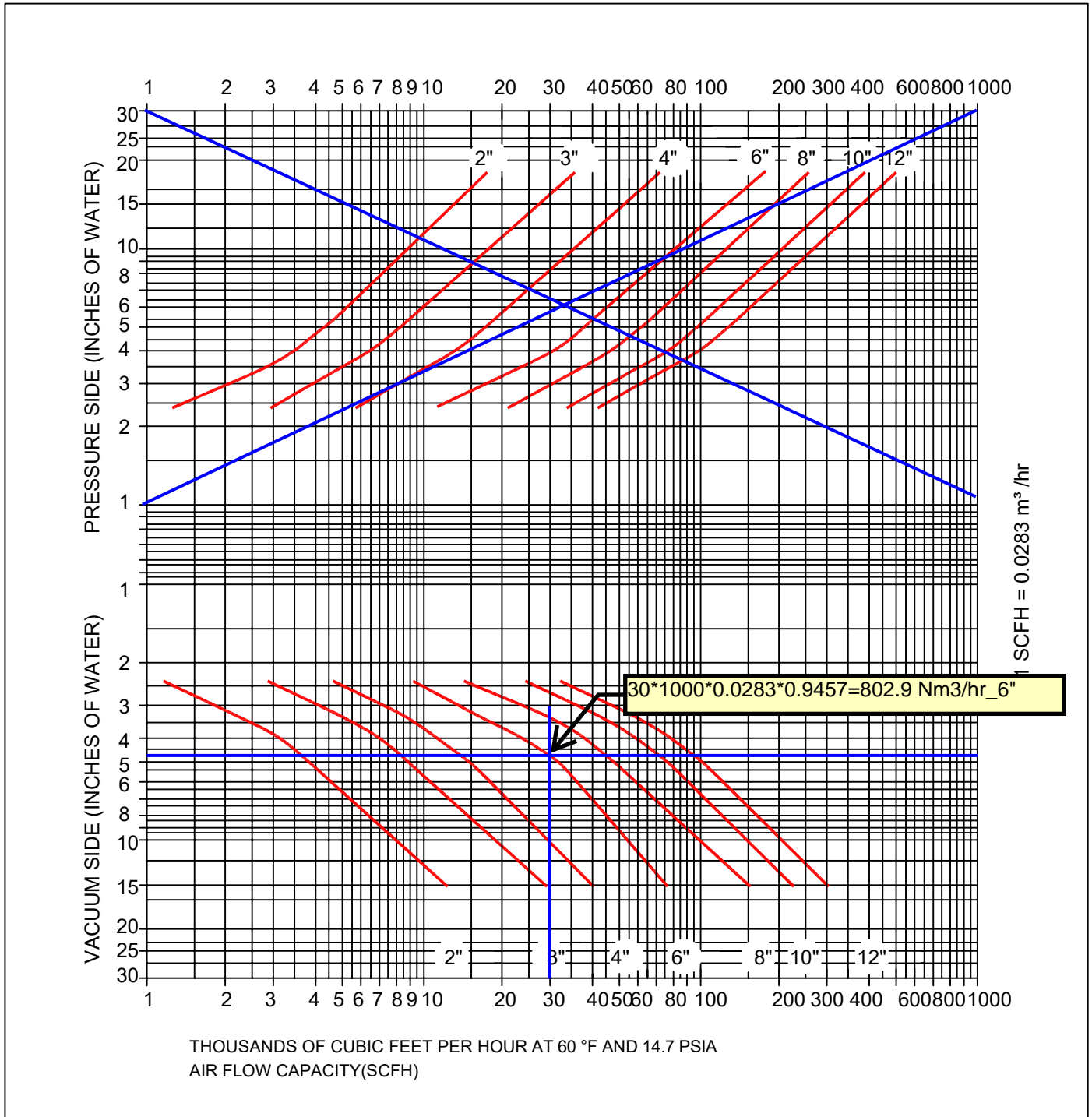
FLOW CAPACITY CURVE

(FOR BREATHER VALVE WITH FLAME ARRESTER)

THOUSANDS OF CUBIC FEET PER HOUR AT 60 °F AND 14.7 PSIA

AIR FLOW CAPACITY(SCFH)

SET AT 2.4 INCHES (60 mmAq)

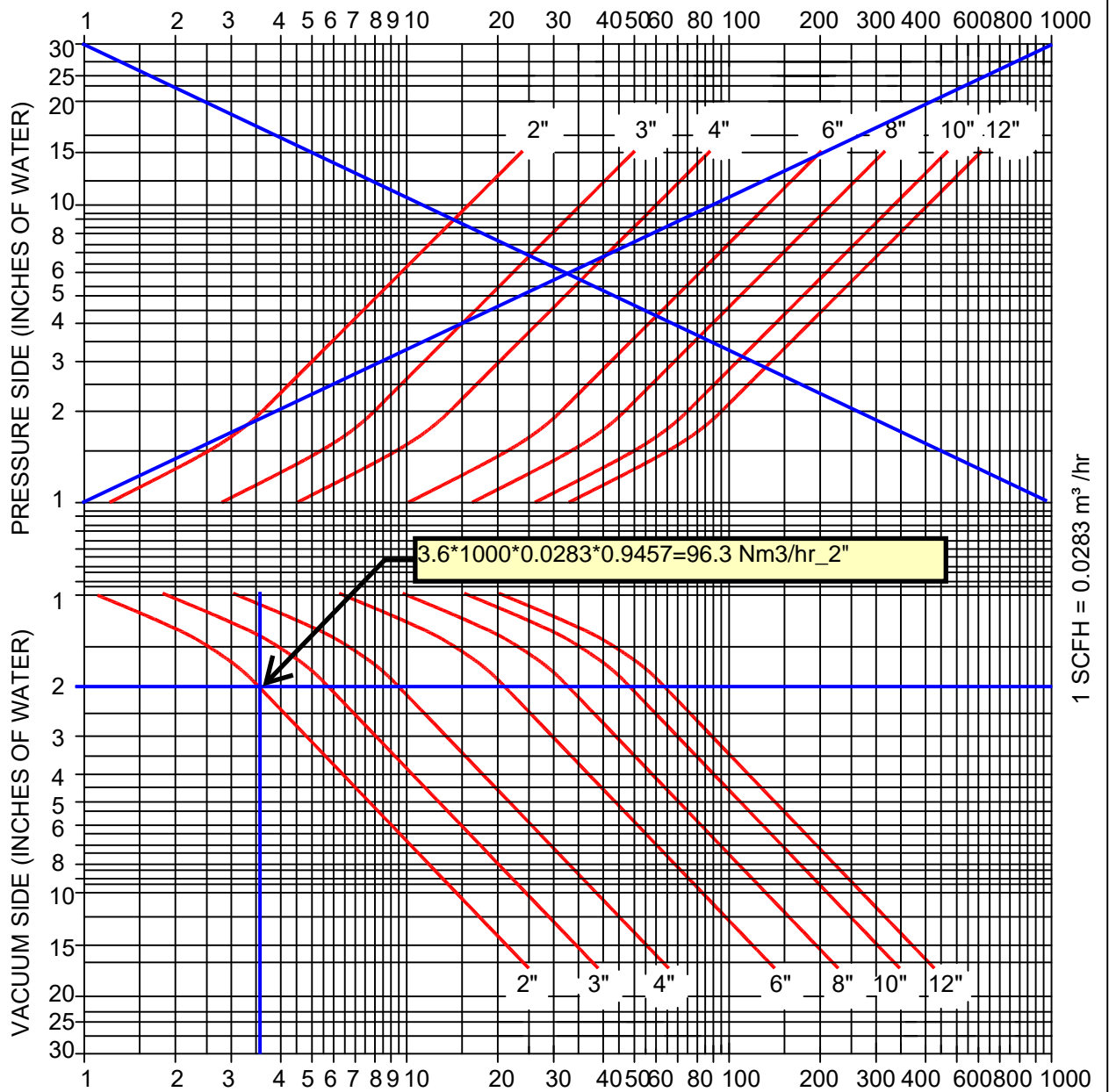


TOPSAFE SAFETY EQUIPMENTS

PRESSURE/VACUUM RELIEF VALVE WITH FLAME ARRESTER

FLOW CAPACITY CURVE
(FOR KSBB TYPE WITH FLAME ARRESTER)

SET AT 1 INCHES (25mmAq)



1 SCFH = 0.0283 m³ /hr

THOUSANDS OF CUBIC FEET PER HOUR AT 60 °F AND 14.7 PSIA
AIR FLOW CAPACITY(SCFH)