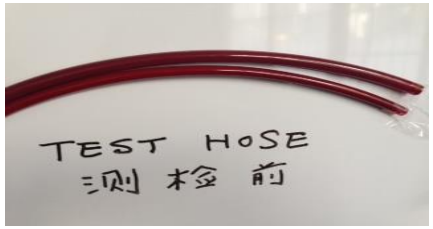
VISCON GROUP
粘度コントローラーのパイオニア

Washing/Cleaning ability test　for viscosity controller

Washing method for viscosity controller

1　Solvent circulation
2　Normal air + Solvent　straight out washing
3　TURBO　WASH　(Solvent circulation + compressed air)

Test　Sample hose



Purpose

Through washing the same dirty hose, the washing ability of above 3 methods will be clarified.

Test conditions & testing object

Object :　ink dirty hose
After circulation of 17 cup second of Magenta color ink for 1 hour,
discharge magenta ink without washing.Then dry hose for 48 hours.

Why user require　" High ability of washing " for viscosity controller ?

Washing is the most important thing for proper operation of viscosity controller.
Of course, if users operator every day wash completely, it is no problems.
What always happened at users operation,　" forget to wash " or " not enough wash"
are always happening.　Can not be avoided.

If users have viscosity controller　with " High ability of washing ",　users can wash clean even after forgetting wash.
It is very convenient and helpful for users　to use viscosity controller properly and for more long time.

Testing method

①　The above mentioned ink dirty hose were connected with VIS-10 (viscosity controller)
②　We carry out washing test by the following 3 kind of washing method（ **Solvent q'ty　3　Ltr、　Test time　5 min.** ）

1　Solvent circulation　3 Ltr,　Circulation　5 min.
2　Normal air + Solvent　straight out washing （Mix　solvent　with normal air　Straight washing）　600cc/min.　x　5 min.
3　TURBO　WASH （Solvent circulation + compressed air ）3 Ltr,　Turbo Wash　5 min.

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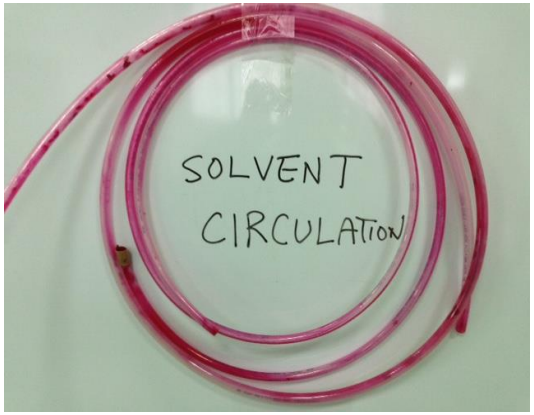
TEST RESULT（Washing ability result)

(Solvent use q'ty 3 Ltr, Washing time 5 min.)

	Ink remain	Wash Q'ty	Washing ability
1 Solvent circulation	50%	50%	**59**
2 Normal air + Solvent straight out washing	60%	40%	**47**
3 TURBO WASH （Solvent circulation + compressed air）	15%	85%	**100**

Test Sample hose

1 Solvent circulation



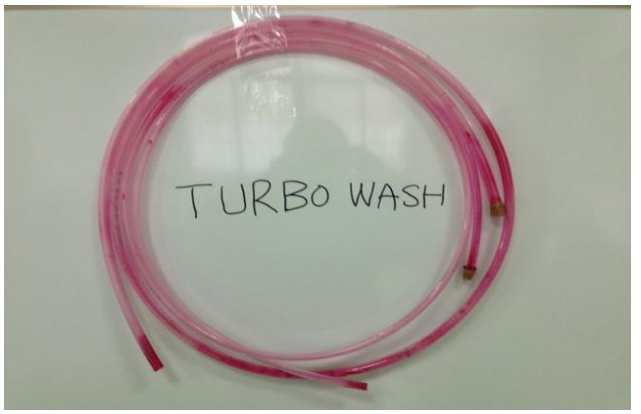
Washing ability **59**

2 Normal air + Solvent straight out washing

Washing ability **47**

3 TURBO WASH

Solvent
Compressed air



Washing ability **100**

Washing Principle

ⅰ Solvent must touch and wash all the dirty place completely. Otherwise no touching place can not be washed.

1 **Solvent circulation** 3 **TURBO WASH**	Solvent touch and wash all the dirty place completely	**OK**	◎

2 **Normal air + solvent straight out wash**	Touch and wash not all the dirty place due to normal air mixed. Many not touched places happen. As straight out washing, touching times is very few times compared with circulation. Touching power of normal air is wekaer than compressed air.	**NG**	**X**

ⅱ

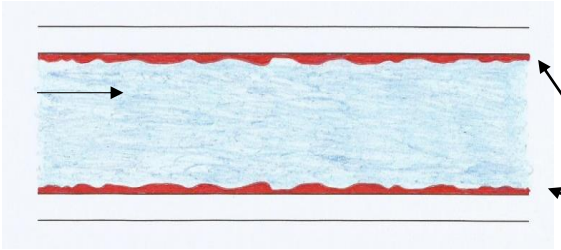
1 **Solvent circulation**	As there no air or no compressed air, only touching to dirty place. So called " **Brushing effect** " can not be performed.	**NG**	**X**

3 TURBO WASH	As compressed air contained in circulation solvent, countless pleanty of compressed air perform "Brushing effect " and increase washing ability.	**OK**	◎

		Solvent touching area	Wash "Brushing effect" ＊1
1	Solvent circulation	ALL	No
2	Normal air + Solvent straight out wash	Part	Yes (small)、Bubble power(Weak)
3	TURBO WASH （Solvent cir. + Compressed air）	ALL	Yes (Big)、Bubble power(Strong)

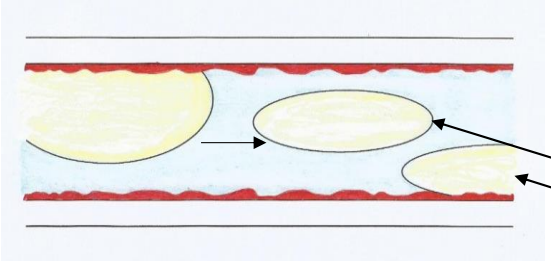
＊1 **Wash " Brushing effect "**
Bubble(air) in the circulated solvent touch and remove ink dirty such as **"Brushing "**
The above is so called **Wash "Brushing effect "** by bubble.

1. Solvent circulation



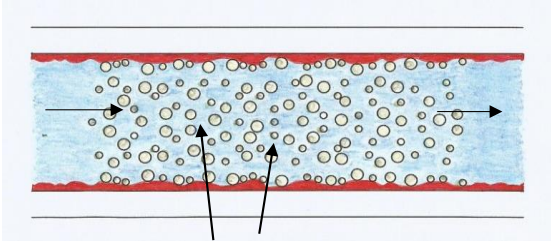
Solvent touch area	Wash "Brushing " effect	Washing ability
ALL	NO	**59**

2. Normal air + Solvent straight out wash



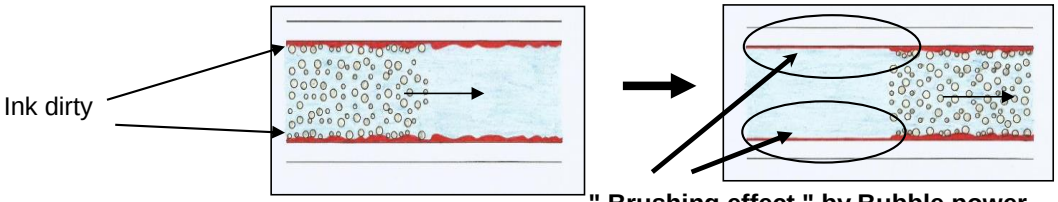
Solvent touch area	Wash "Brushing " effect	Washing ability
Part	YES (small)、 Bubble power(Weak)	**47**

3. TURBO WASH（ Solvent cir.＋Compressed air ）



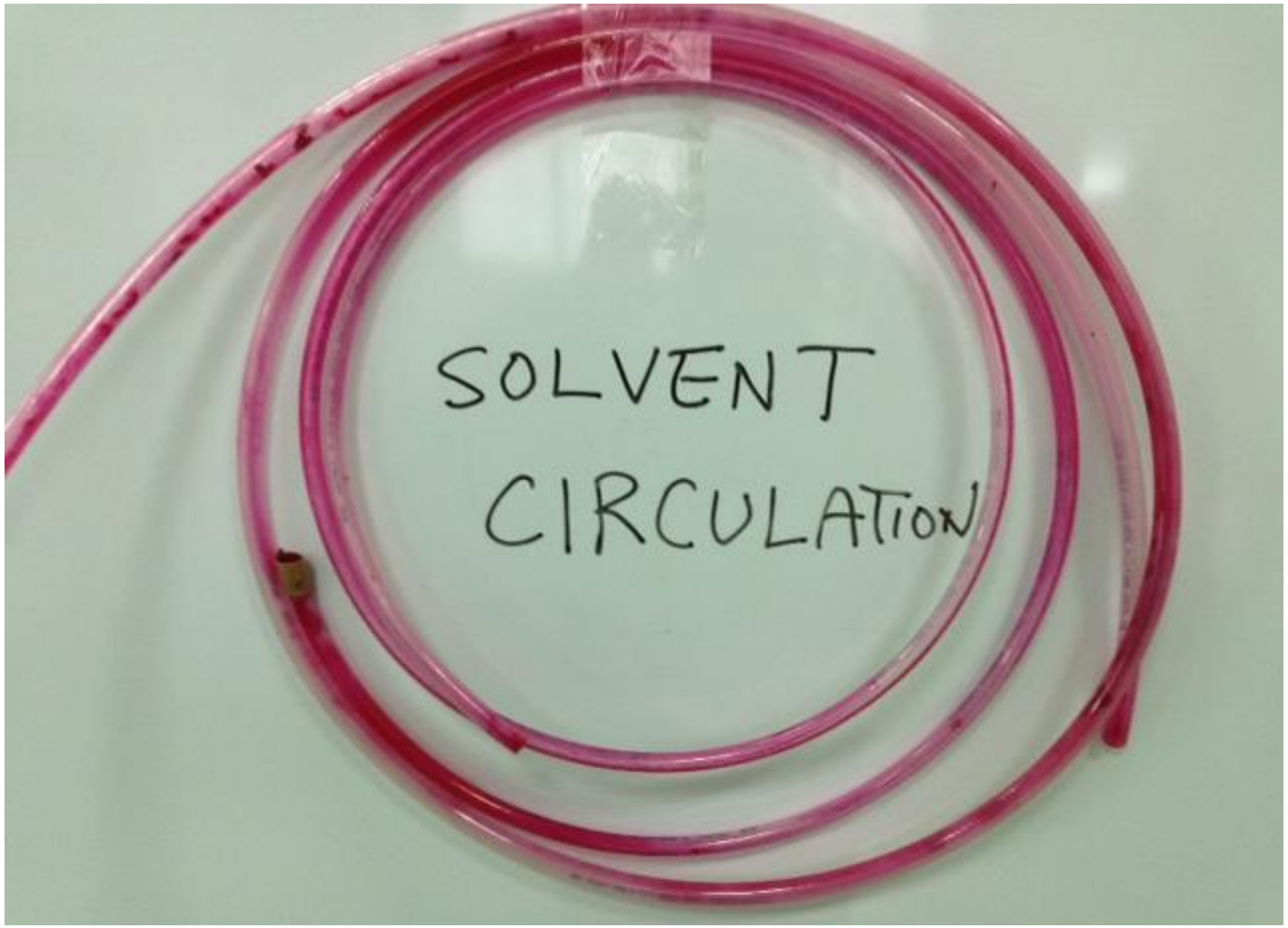
Solvent touch area	Wash "Brushing " effect	Washing ability
ALL	YES (Big)、 Bubble power (Strong)	**100**

Wash " Brushing effect "



" Brushing effect " by Bubble power

1 Solvent circulation 3 Ltr, Circulation 5 min.



Ink dirty remain 50 %

2 Normal air + Solvent straight out wash 600cc/min. x 5 min. Total 3 Ltr

Ink dirty remain 60 %

3　TURBO　WASH　（Solvent circulation + Compressed air）3 Ltr,　5 min.

Ink dirty remain　15 %

Test Sample hose

Ink dirty remain 100 %

Viscon (Japan) official Blog English " What is viscosity controller？ "

URL : https://visconjapan.com/en/

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