



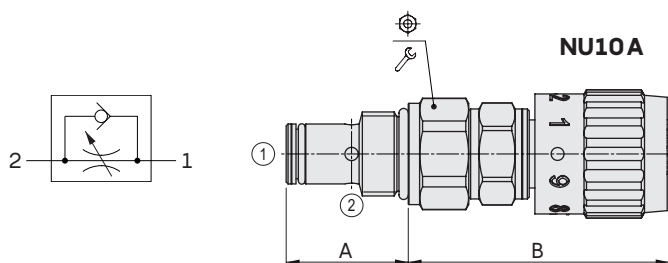
NU..A type needle valves - 2 way

- Poppet type
- Different types of manual adjustment
- Prepared for copped adjustment
- Free return line
- From SAE08 to SAE16 cavities

Technical specifications and diagrams are measured with mineral oil of 46 cSt viscosity at 40°C (104°F) temperature.

	NU08A	NU10A	NU12A	NU16A
Nominal flow	15 l/min (3.9 US gpm)	30 l/min (7.9 US gpm)	60 l/min (16 US gpm)	100 l/min (26 US gpm)
Max. pressure	350 bar (5100 psi)			
Fluid	mineral based or synthetic hydraulic fluid with lubricating properties			
Viscosity	10-200 cSt			
Max level of contamination	20/18/14 ISO4406			
Fluid temperature	with NBR seals+PTFE with FPM seals	from -25°C (-13°F) to 90°C (194°F) from -20°C (-4°F) to 110°C (230°F)		
Environmental temp. for working conditions	from -20°C (-4°F) to 60°C (140°F)			
Cavity	SAE 08/2	SAE 10/2	SAE 12/2	SAE 16/2
Weight	0.240 kg (0.53 lb)	0.290 kg (0.64 lb)	0.400 kg (0.88 lb)	0.550 kg (1.21 lb)

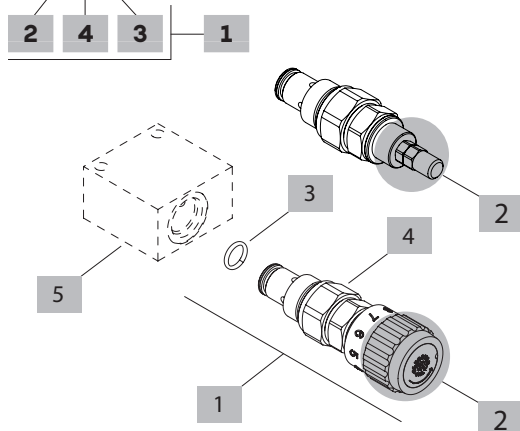
NOTE - For different conditions, please contact Walvoil Sales Dpt.



Valve type		A		B				
		mm	in	mm	in	Nm	lbft	
NU08 A/A	M	27.6	1.09	70.7	2.78	24	30	22
	S	27.6	1.09	64.5	2.54	24	30	22
NU10 A/A	M	32.3	1.27	70	2.76	27	50	37
	S	32.3	1.27	65	2.56	27	50	37
NU12 A/A	M	46	1.81	71.2	2.80	32	80	59
	S	46	1.81	66	2.60	32	80	59
NU16 A/A	M	45.2	1.78	72.9	2.87	41	100	74
	S	45.2	1.78	66	2.60	41	100	74

Ordering codes and description composition

NU08 A/AM1B



1 Cartridges

TYPE	CODE	DESCRIPTION
SAE cavity 08/2		
NU08 A/AM1B	ONU08002000	Handknob adjustment
NU08 A/AS1B	ONU08002001	Screw type adjustment
SAE cavity 10/2		
NU10 A/AM1B	ONU10002000	Handknob adjustment
NU10 A/AS1B	ONU10002001	Screw type adjustment
SAE cavity 12/2		
NU12 A/AM1B	ONU12002000	Handknob adjustment
NU12 A/AS1B	ONU12002001	Screw type adjustment
SAE cavity 16/2		
NU16 A/AM1B	ONU16002000	Handknob adjustment
NU16 A/AS1B	ONU16002001	Screw type adjustment

2 Adjustments

TYPE	DESCRIPTION
S	Screw
M	Handknob calibrated
W	Copped adjustment

3 Seals

TYPE	DESCRIPTION
B	NBR (Buna)+PTFE o-ring seals, std configuration
V	FPM (Viton) o-ring seals, contact Sales Dept

4 Opening pressure check valve from 1 to 2

TYPE	DESCRIPTION
1	0.5 bar (7.3 psi)

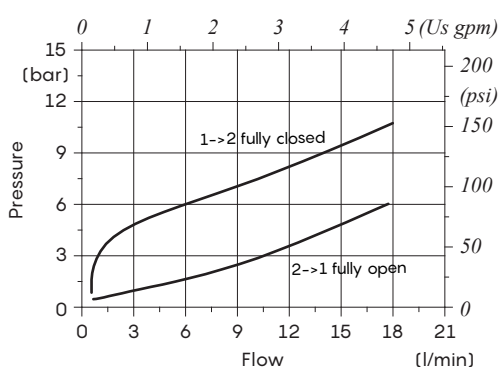
5 Valve body

TYPE	CODE	DESCRIPTION
SAE08/2-G 3/8	3CC0820C11	Aluminium body for cavity 08 valve, G 3/8 std thread
SAE10/2-G 3/8	3CC1020C11	Aluminium body for cavity 10 valve, G 3/8 std thread
SAE12/2-G 1/2	3CC1220D11	Aluminium body for cavity 12 valve, G 1/2 std thread
SAE16/2-G 3/4	3CC1620E11	Aluminium body for cavity 16 valve, G 3/4 std thread

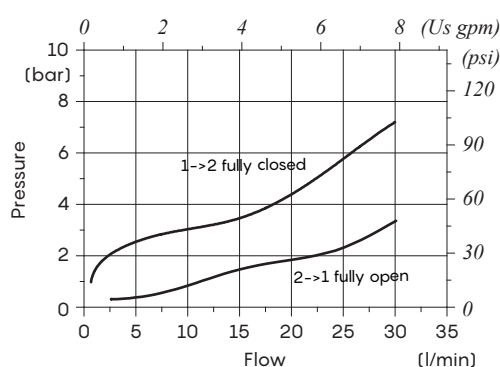
Note: aluminium body can stand up to 210 bar (3050 psi)
For steel bodies or different threading see from page 208

Rating diagrams

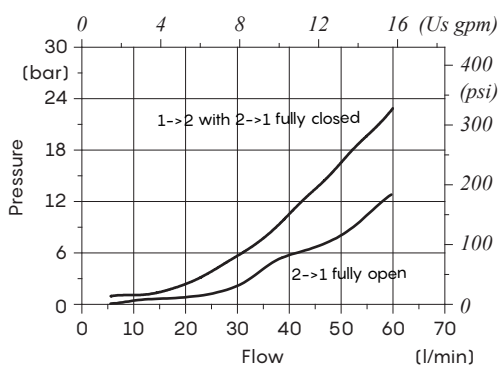
NU08 A pressure drop vs. flow



NU10 A pressure drop vs. flow



NU12 A pressure drop vs. flow



NU16 A pressure drop vs. flow

