



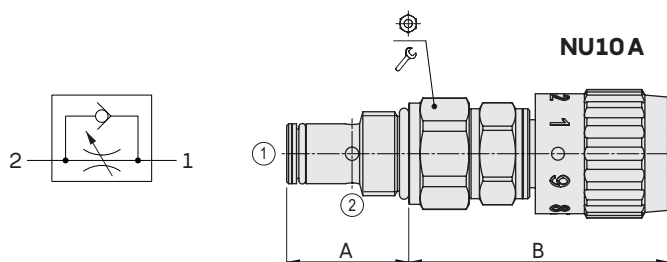
NU..A type needle valves - 2 way

- 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)

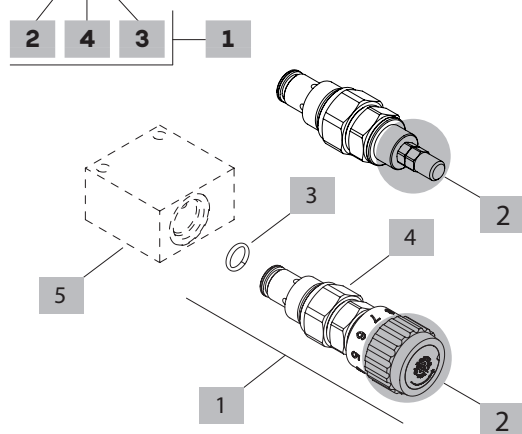
NOTE - For different conditions, please contact Walvoil Sales Dpt.



Valve type		A		B				
		mm	in	mm	in	Nm		lbft
NU08A/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
NU10A/A	M	32.3	1.27	70	2.76	27	50	37
	S	32.3	1.27	65	2.56	27	50	37
NU12A/A	M	46	1.81	71.2	2.80	32	80	59
	S	46	1.81	66	2.60	32	80	59
NU16A/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)

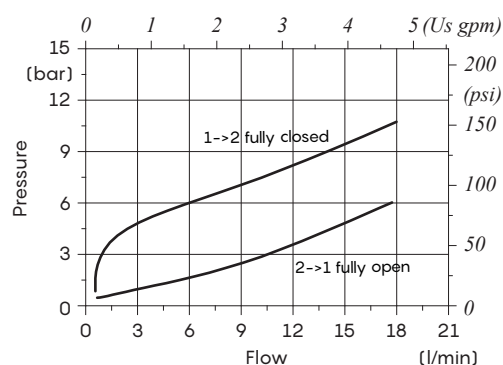
5 Valve body

TYPE	CODE	DESCRIPTION
SAE08/2-SAE8	3CC0820K11	Aluminium body for cavity 08 valve, SAE8 std thread
SAE10/2-SAE8	3CC1020K11	Aluminium body for cavity 10 valve, SAE8 std thread
SAE12/2-SAE10	3CC1220L11	Aluminium body for cavity 12 valve, SAE10 std thread
SAE16/2-SAE12	3CC1620M11	Aluminium body for cavity 16 valve, SAE12 std thread

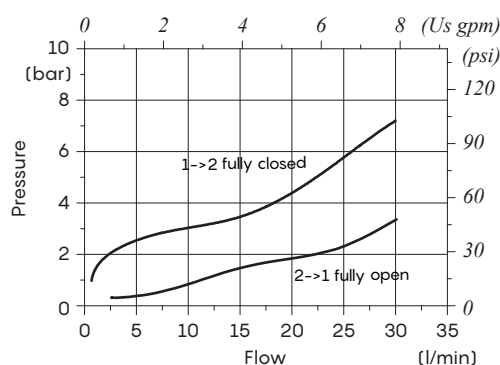
Note: aluminium body can stand up to 210 bar (3050 psi)
For steel bodies or different threading see from page 208

Rating diagrams

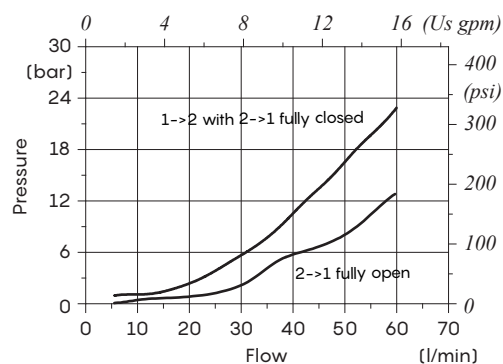
NU08A pressure drop vs. flow



NU10A pressure drop vs. flow



NU12A pressure drop vs. flow



NU16A pressure drop vs. flow

