

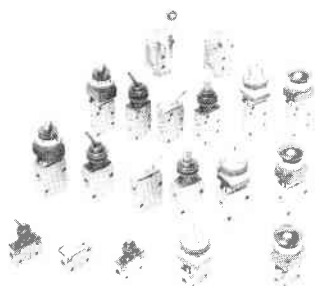


Mechanical Valves

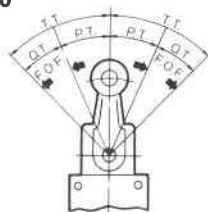
Series NVM, NVFM, NVZM



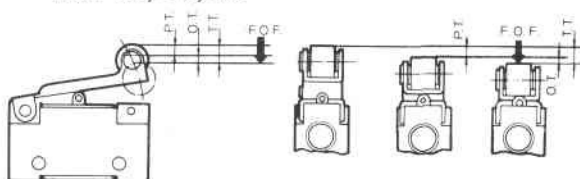
Contents	Page
NVM Mechanical Valves	
NVM 100 Cv 0.14	3-5
NVM 200 Cv 1.00	6-8
NVM 430 Cv 0.38	9-11
NVM 830 Limit Valve Cv 0.33	11-12
NVFM 250 Mech. Actuated/ Pilot Operated Cv 1.0	13-17
NVZM 450 Mech. Actuated/ Pilot Operated Cv 0.55	13; 18-20



ACTUATOR TRAVEL INDEX
NVM 830



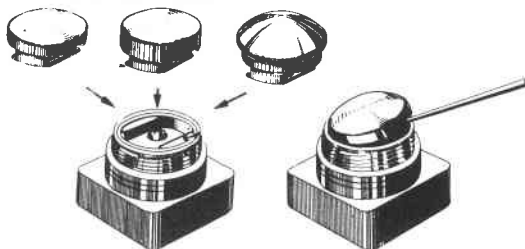
NVM 100, 230, 400



TERMS

- O.P.** = Operating Position - Position Valve is shifted when force is applied to actuator to begin operation.
F.O.F. = Whole Stroke Force - Force required to move actuator.
P.T. = Pre Travel
O.T. = Operational Travel
T.T. = Total Travel

CHANGING PUSH BUTTONS



Pushbuttons on actuator ass'ys #30, #32 & #33 are interchangeable. To remove lever button, use screwdriver to release from spring clip. To reassemble, push button firmly into spring clip.

SPECIFICATIONS

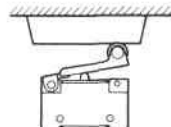
CHARACTERISTICS		NVM100	NVM200	NVM430	NVM830
Port Size (NPT)		1/8"	1/4"	1/8"	1/8"
Cv		0.14	1.00	0.38	0.33
Max. Supply Pressure		220 PSIG (15 Kgf/cm ²)			
Operating Pressure		0-150 PSIG (0-9.9 Kgf/cm ²)			
Operating Temperature		40-140°F (5-60°C)			
Media		Air*	Air*	Air/Liq.*	Air/Liq.*
Materials	Body	Aluminum Die Cast			
	Spool, Stem, Spring	Stainless Steel			
	Seals & Poppets	Buna N			
Weight oz. (g)		3.10 (88)	4.56 (130)	3.88 (110)	6.35 (180)

*Air (Lubricated) - Any non-flammable, non-toxic, non-corrosive gases except oxygen.
 Liquid - Oil or non-corrosive liquids within specified pressures.

SMC Mechanical Valves have been designed to meet general industrial standards and are capable of long, trouble-free life under stringent operating conditions. The simple construction, utilizing corrosion resistant aluminum Die Cast bodies with optional heavy duty actuators and Buna N seal design, ensure positive operation and media control. Available in two and three way flow configurations, four different body sizes and the capability of mounting a variety of interchangeable actuator assemblies to meet system requirements.

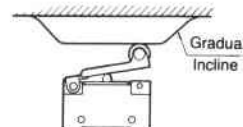
MOUNTING METHOD

Not Recommended

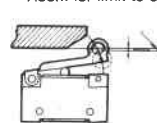


Avoid Sudden Movement of Cam & Lever

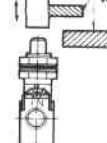
Recommended



Room for limit to operate



Protect Actuators with Stop



OPERATION REQUIREMENTS (NVM)

Actuator (Suffix #)	Lever Angle	Speed ft./sec. (m/sec.)
Cam Lever (-01)	30°	2.29 (0.7)
	45°	0.98 (0.3)
One-Way Cam Lever (-02)	30°	2.29 (0.7)
	45°	0.98 (0.3)
Plunger (-05)	—	0.65 (0.2)
Roller Plunger, Inline (-06)	30°	0.98 (0.3)
Roller Plunger, Set 90° (-07)	30°	0.98 (0.3)
Roller Adjusting (-01) (NVM800)	30°	1.64 (0.5)
	45°	0.65 (0.2)
Roller Adjusting Lever (-13) (NVM800)	30°	0.65 (0.2)
	45°	0.33 (0.1)
Rod Adjusting Lever (-14) (NVM800)	—	0.65 (0.2)

VM 100



HOW TO ORDER

NVM 120 - N01 - 06S

Valve Series
120 = 2-way; 2 ports
130 = 3-way; 2 ports

Port Size
01 = 1/8" NPT

Roller Material (06 & 07 Only)
— = Nylon (Standard)
S = Steel

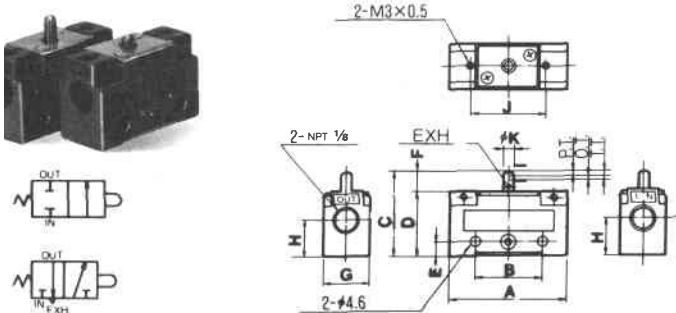
Actuator
00 = Valve Body Only
05 = Plunger
06 = Roller Plunger, Inline
07 = Roller Plunger, Set 90°
08 = Toggle
30 = Push Button-Mushroom*
32 = Push Button-Extended*
33 = Push Button-Flush*
34 = Selector - 90° Turn*
36 = Selector Key
*Specify Color
- B = Black
- G = Green
- R = Red

HOW TO ORDER
NON-EXCHANGEABLE ACTUATORS

- #121-N01-01 = 2-way; 2 port-1/8" NPT w/Std. Cam Lever
 - #121-N01-02 = 2-way; 2 port-1/8" NPT w/One Way Cam Lever
 - #131-N01-01 = 3-way; 2 port-1/8" NPT w/Std. Cam Lever
 - #131-N01-02 = 3-way; 2 port-1/8" NPT w/One Way Cam Lever
 - #131-N01-35 = Dual Valve-1/8" NPT, 3 position, closed center 45°-0-45° Selector*
 - #151-N01-35 = Dual Valve-1/8" NPT, 3 position, exhaust center 45°-0-45° Selector*
- Specify Color (black, green, red)
Note: For steel roller, add suffix S to product number. EX: NVM121-N01-01S



VM120-N01-00
130-N01-00



F.O.F.*lbs. (kg)	4.41 (2)
P.T. In (mm)	0.06 (1.5)
O.T. In (mm)	0.06 (1.5)
T.T. In (mm)	0.12 (3)

*75 PSIG (5 Kgf/cm²)

DIMENSIONS

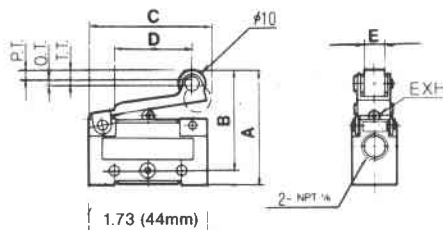
Model #	A	B	C	D	E	F	G	H	J	K
NVM 120/130	1.73 (44)	1.00 (25.4)	1.28 (32.5)	0.98 (25)	0.22 (5.5)	0.30 (7.5)	0.67 (17)	0.57 (14.5)	1.06 (27)	0.16 (4)
NVM 121/131	1.73 (44)	1.00 (25.4)	1.12 (28.5)	0.98 (25)	0.22 (5.5)	0.14 (3.5)	0.67 (17)	0.57 (14.5)	1.06 (27)	0.16 (4)

Millimeters in Parentheses

Series NVM

MECHANICAL VALVES DIMENSIONS

NVM121-N01-01
131-N01-01

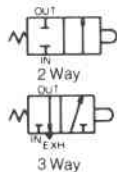


F.O.F.*	2.2	lbs.	(1 kg.)
P.T.	0.125	in.	(3.2mm)
O.T.	0.091	in.	(2.3mm)
T.T.	0.216	in.	(5.5mm)

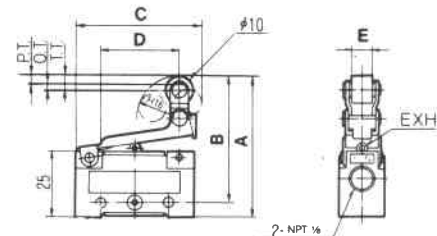
*75 PSIG (5 Kgf/cm²)

A	B	C	D	E
1.68 (42.6)	1.46 (37.1)	1.79 (45.5)	1.14 (29)	0.31 (8)

Millimeters in Parentheses



NVM121-N01-02
131-N01-02



F.O.F.*	2.2	lbs.	(1 kg.)
P.T.	0.125	in.	(3.2mm)
O.T.	0.091	in.	(2.3mm)
T.T.	0.216	in.	(5.5mm)

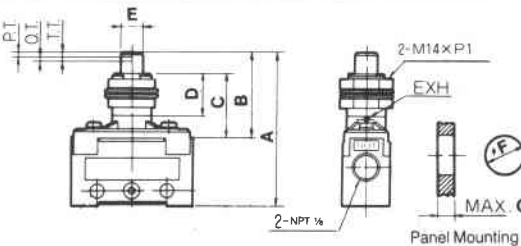
*75 PSIG (5 Kgf/cm²)

A	B	C	D	E
2.11 (53.5)	1.89 (48)	1.83 (46.5)	1.14 (29)	0.31 (8)

Millimeters in Parentheses



NVM120-N01-05
130-N01-05

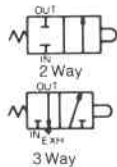


F.O.F.*	5.07	lbs.	(2.3 kg.)
P.T.	0.079	in.	(2mm)
O.T.	0.059	in.	(1.5mm)
T.T.	0.138	in.	(3.5mm)

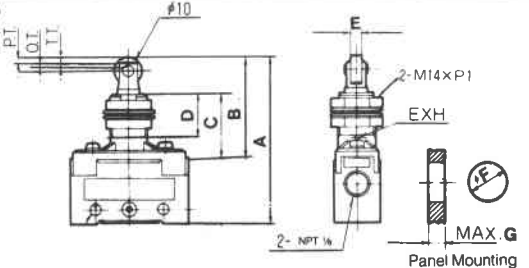
*75 PSIG (5 Kgf/cm²)

A	B	C	D	E	F	G
2.24 (57)	1.26 (32)	0.94 (24)	0.63 (16)	0.31 (8)	0.57 (14.5)	0.24 (6)

Millimeters in Parentheses



NVM120-N01-06
130-N01-06

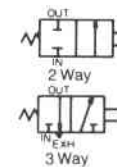


F.O.F.*	5.07	lbs.	(2.3 kg.)
P.T.	0.079	in.	(2mm)
O.T.	0.059	in.	(1.5mm)
T.T.	0.138	in.	(3.5mm)

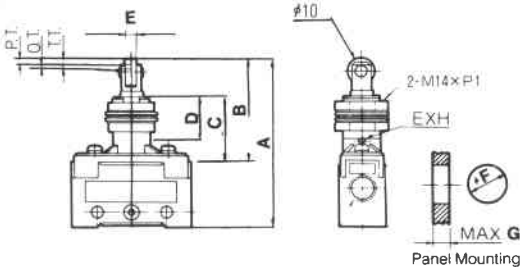
*75 PSIG (5 Kgf/cm²)

A	B	C	D	E	F	G
2.48 (63)	1.50 (38)	0.94 (24)	0.63 (16)	0.16 (4)	0.57 (14.5)	0.24 (6)

Millimeters in Parentheses



NVM120-N01-07
130-N01-07

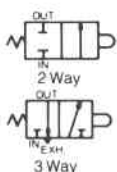


F.O.F.*	5.07	lbs.	(2.3 kg.)
P.T.	0.079	in.	(2mm)
O.T.	0.059	in.	(1.5mm)
T.T.	0.138	in.	(3.5mm)

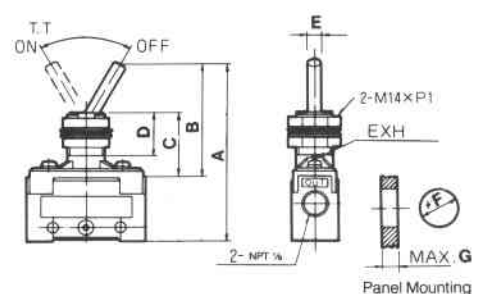
*75 PSIG (5 Kgf/cm²)

A	B	C	D	E	F	G
2.48 (63)	1.50 (38)	0.94 (24)	0.63 (16)	0.16 (4)	0.57 (14.5)	0.24 (6)

Millimeters in Parentheses



NVM120-N01-08
130-N01-08

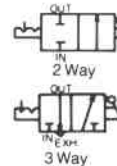


F.O.F.*	2.20	lbs.	(1 kg.)
T.T.	60°		

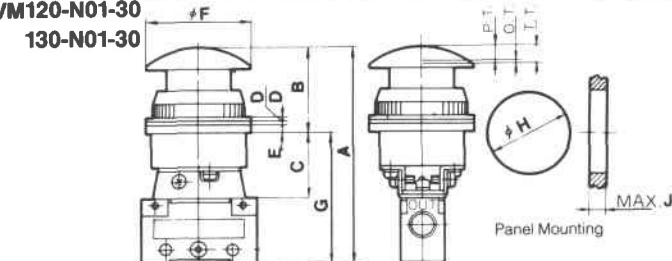
*75 PSIG (5 Kgf/cm²)

A	B	C	D	E	F	G
2.66 (67.5)	1.67 (42.5)	0.94 (24)	0.63 (16)	0.20 (5)	0.57 (14.5)	0.24 (6)

Millimeters in Parentheses



VM120-N01-30
130-N01-30



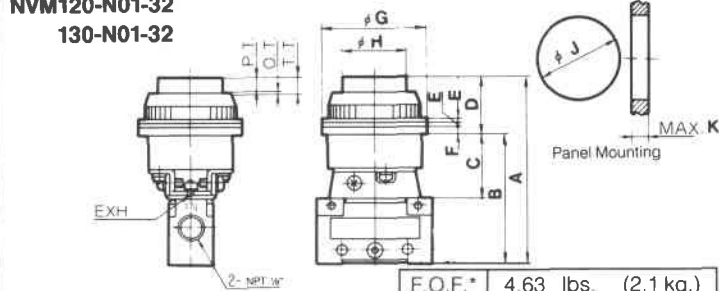
F.O.F.*	4.63 lbs. (2.1 kg.)
P.T.	0.216 in. (5.5mm)
O.T.	0.039 in. (1mm)
T.T.	0.256 in. (6.5mm)

*75 PSIG (5 Kg/cm²)

A	B	C	D	E	F	G	H	J
3.23 (82)	1.28 (32.5)	0.96 (24.5)	0.06 (15)	0.12 (3)	1.54 (39)	1.95 (49.5)	1.20 (30.5)	0.24 (6)

Millimeters in Parentheses

NVM120-N01-32
130-N01-32



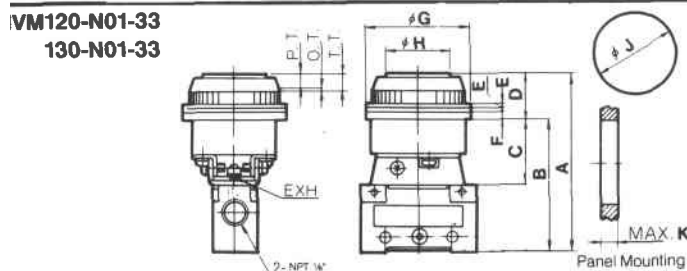
F.O.F.*	4.63 lbs. (2.1 kg.)
P.T.	0.216 in. (5.5mm)
O.T.	0.039 in. (1mm)
T.T.	0.256 in. (6.5mm)

*75 PSIG (5 Kg/cm²)

A	B	C	D	E	F	G	H	J	K
2.81 (71.5)	1.95 (49.5)	0.96 (24.5)	0.87 (22)	0.06 (1.5)	0.12 (3)	1.57 (40)	0.96 (24.5)	1.20 (30.5)	0.24 (6)

Millimeters in Parentheses

VM120-N01-33
130-N01-33



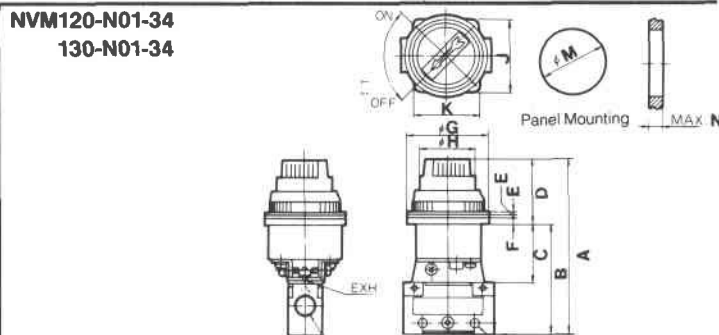
F.O.F.*	4.63 lbs. (2.1 kg.)
P.T.	0.216 in. (5.5mm)
O.T.	0.039 in. (1mm)
T.T.	0.256 in. (6.5mm)

*75 PSIG (5 Kg/cm²)

A	B	C	D	E	F	G	H	J	K
2.64 (67)	1.95 (49.5)	0.96 (24.5)	0.69 (17.5)	0.06 (1.5)	0.12 (3)	1.57 (40)	0.96 (24.5)	1.20 (30.5)	0.24 (6)

Millimeters in Parentheses

NVM120-N01-34
130-N01-34



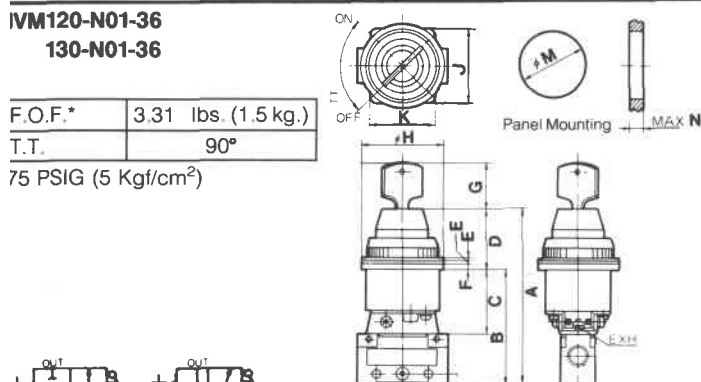
F.O.F.*	3.31 lbs. (1.5 kg.)
T.T.	90°

*75 PSIG (5 Kg/cm²)

A	B	C	D	E	F	G	H	J	K	M	N
3.31 (84)	2.09 (53)	1.10 (28)	1.22 (31)	0.06 (1.5)	0.12 (3)	1.57 (40)	1.06 (27)	1.42 (36)	1.26 (32)	1.20 (30.5)	0.24 (6)

Millimeters in Parentheses

VM120-N01-36
130-N01-36



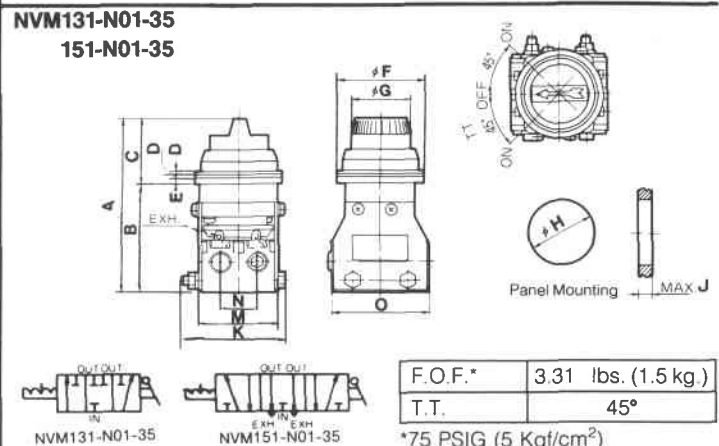
F.O.F.*	3.31 lbs. (1.5 kg.)
T.T.	90°

75 PSIG (5 Kg/cm²)

A	B	C	D	E	F	G	H	J	K	M	N
3.44 (87.3)	2.24 (56.8)	1.25 (31.8)	1.20 (30.5)	0.06 (1.5)	0.12 (3)	0.86 (22.5)	1.57 (40)	1.42 (36)	1.26 (32)	1.20 (30.5)	0.24 (6)

Millimeters in Parentheses

NVM131-N01-35
151-N01-35



F.O.F.*	3.31 lbs. (1.5 kg.)
T.T.	45°

*75 PSIG (5 Kg/cm²)

A	B	C	D	E	F	G	H	J	K	M	N	O
3.21 (81.5)	1.99 (50.5)	1.22 (31)	0.06 (1.5)	0.12 (3)	1.57 (40)	1.06 (27)	1.20 (30.5)	0.24 (6)	1.88 (47.8)	1.46 (37.2)	0.67 (17)	1.73 (44)

Millimeters in Parentheses

Series NVM

MECHANICAL VALVES

HOW TO ORDER DIMENSIONS

NVM 200



HOW TO ORDER

NVM 220 - N02 - 06S

Valve Series

220 = 2-way; 2 ports
230 = 3-way; 2 ports

Port Size

02 = 1/4" NPT

Roller Material (01,02,06,07)

— = Nylon (Standard)
S = Steel

Actuator

- 00 = Valve Body Only
- 01 = Cam Lever
- 02 = Cam Lever-One Way
- 05 = Plunger
- 06 = Roller Plunger, Inline
- 07 = Roller Plunger, Set 90°
- 08 = Toggle
- 30 = Push Button-Mushroom*
- 32 = Push Button-Extended*
- 33 = Push Button-Flush*
- 34 = Selector - 90° Turn*
- 36 = Selector Key

*Specify Color
- B = Black
- G = Green
- R = Red



NVM230-N02-35
NVM250-N02-35

HOW TO ORDER

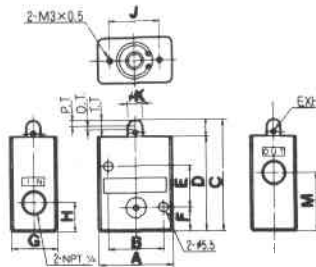
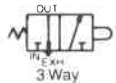
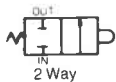
NON-EXCHANGEABLE ACTUATORS

NVM230-N02-35 = Dual Valve - 1/4" NPT, 3 position, closed center w/90° Selector*

NVM250-N02-35 = Dual Valve - 1/4" NPT, 3 position, open center w/90° Selector*

*Specify Color (black, green, red)

NVM220-N02-00 230-N02-00



F.O.F.*lbs. (kg)	11.46 (5.2)
P.T. In (mm)	0.12 (3)
O.T. In (mm)	0.08 (2)
T.T. In (mm)	0.19 (5)

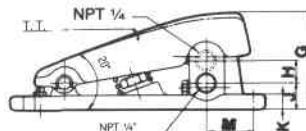
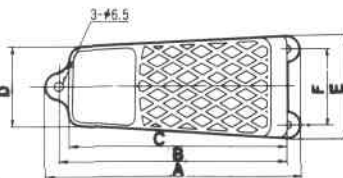
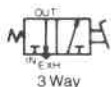
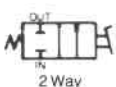
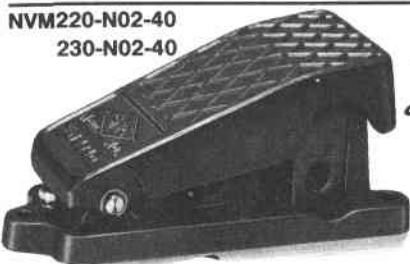
*75 PSIG (5 Kgf/cm²)

DIMENSIONS

A	B	C	D	E	F	G	H	J	K	M
1.57 (40)	1.18 (30)	2.40 (61)	2.05 (52)	0.87 (22)	0.51 (13)	0.98 (25)	0.63 (16)	1.06 (27)	0.31 (8)	1.26 (32)

Millimeters in Parentheses

NVM220-N02-40 230-N02-40



HOW TO ORDER

NVM220-N02-40 = 2 way; 2 port - 1/4" NPT w/Foot Pedal

NVM230-N02-40 = 3 way; 2 port - 1/4" NPT w/Foot Pedal

*Note - Foot Guard is not available.

F.O.F.*	14.33 lbs. (6.5 kg)
T.T.	1.2"

*75 PSIG (5 Kgf/cm²)

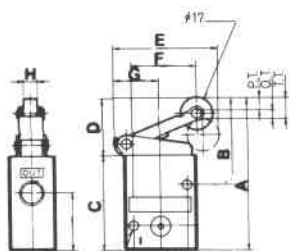
A	B	C	D	E	F	G	H	J	K	M
6.97 (177)	6.26 (159)	5.98 (152)	2.13 (54)	2.91 (74)	2.09 (53)	2.76 (70)	0.63 (16)	0.75 (19)	0.43 (11)	1.24 (31.5)

Millimeters in Parentheses

Series NVM

MECHANICAL VALVES DIMENSIONS

**VM220-N02-01
230-N02-01**

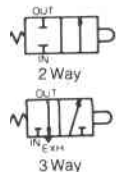


F.O.F.*	5.29 lbs.	(2.4 kg.)
P.T.	0.256 in.	(6.5mm)
O.T.	0.177 in.	(4.5mm)
T.T.	0.433 in.	(11mm)

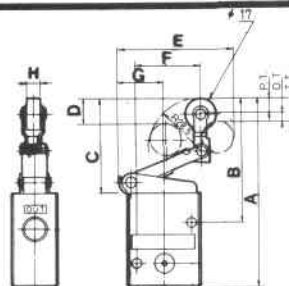
*75 PSIG (5 Kgf/cm²)

A	B	C	D	E	F	G	H
3.31 (84)	1.93 (49)	2.05 (52)	1.26 (32)	2.24 (57)	1.39 (35.4)	0.96 (24.5)	0.31 (8)

Millimeters in Parentheses



**NVM220-N02-02
230-N02-02**

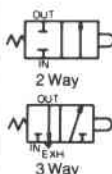


F.O.F.*	4.85 lbs.	(2.2 kg.)
P.T.	2.76 in.	(7mm)
O.T.	0.197 in.	(5mm)
T.T.	0.47 in.	(12mm)

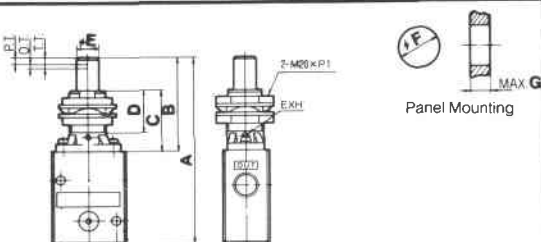
*75 PSIG (5 Kgf/cm²)

A	B	C	D	E	F	G	H
4.09 (104)	2.72 (69)	2.05 (52)	0.55 (14)	2.48 (63)	1.39 (35.4)	0.96 (24.5)	0.31 (8)

Millimeters in Parentheses



**VM220-N02-05
230-N02-05**

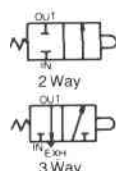


F.O.F.*	12.35 lbs.	(5.6 kg.)
P.T.	0.138 in.	(3.5mm)
O.T.	0.079 in.	(2mm)
T.T.	0.216 in.	(5.5mm)

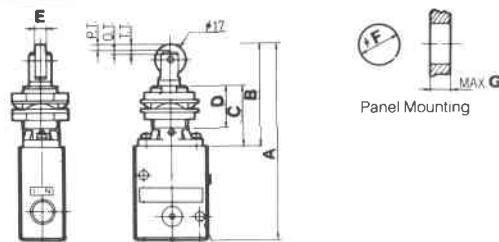
*75 PSIG (5 Kgf/cm²)

A	B	C	D	E	F	G
4.07 (103.5)	2.03 (51.5)	1.32 (33.5)	0.91 (23)	0.47 (12)	0.81 (20.5)	0.39 (10)

Millimeters in Parentheses



**NVM220-N02-06
230-N02-06**

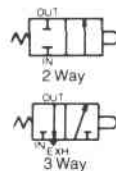


F.O.F.*	12.35 lbs.	(5.6 kg.)
P.T.	0.138 in.	(3.5mm)
O.T.	0.079 in.	(2mm)
T.T.	0.216 in.	(5.5mm)

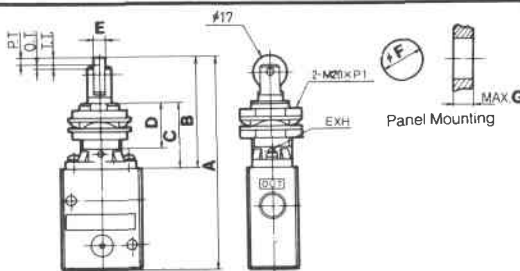
*75 PSIG (5 Kgf/cm²)

A	B	C	D	E	F	G
4.25 (108)	2.20 (56)	1.32 (33.5)	0.91 (23)	0.24 (6)	0.81 (20.5)	0.39 (10)

Millimeters in Parentheses



**VM220-N02-07
230-N02-07**

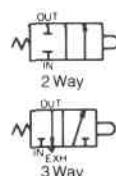


F.O.F.*	12.35 lbs.	(5.6 kg.)
P.T.	0.138 in.	(3.5mm)
O.T.	0.079 in.	(2mm)
T.T.	0.216 in.	(5.5mm)

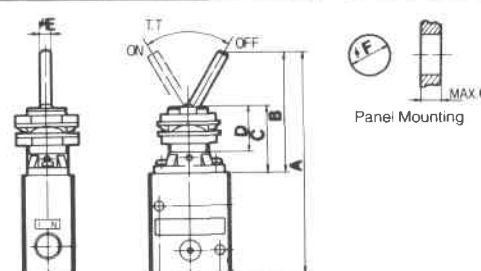
*75 PSIG (5 Kgf/cm²)

A	B	C	D	E	F	G
4.25 (108)	2.20 (56)	1.32 (33.5)	0.91 (23)	0.24 (6)	0.81 (20.5)	0.39 (10)

Millimeters in Parentheses



**NVM220-N02-08
230-N02-08**

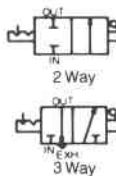


F.O.F.*	2.65 lbs.	(1.2 kg.)
T.T.	60°	

*75 PSIG (5 Kgf/cm²)

A	B	C	D	E	F	G
4.43 (112.5)	2.38 (60.5)	1.32 (33.5)	0.91 (23)	0.24 (6)	0.81 (20.5)	0.39 (10)

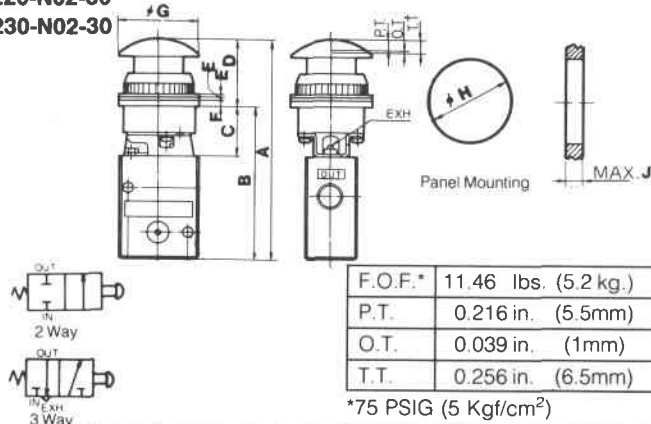
Millimeters in Parentheses



Series NVM

MECHANICAL VALVES DIMENSIONS

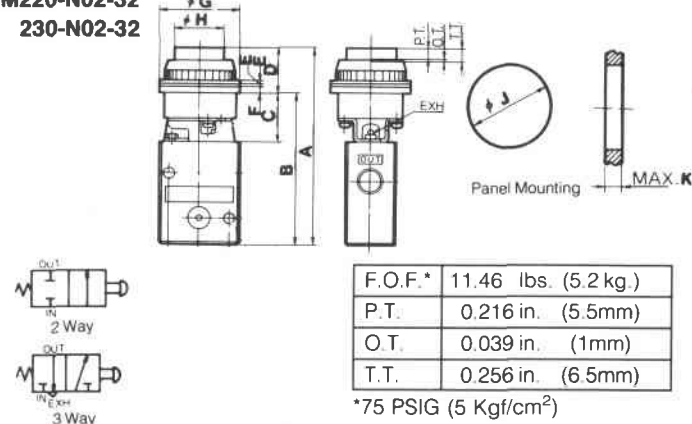
**NVM220-N02-30
230-N02-30**



A	B	C	D	E	F	G	H	J
4.29 (109)	3.01 (76.5)	0.96 (24.5)	1.28 (32.5)	0.06 (1.5)	0.12 (3)	1.54 (39)	1.20 (30.5)	0.24 (6)

Millimeters in Parentheses

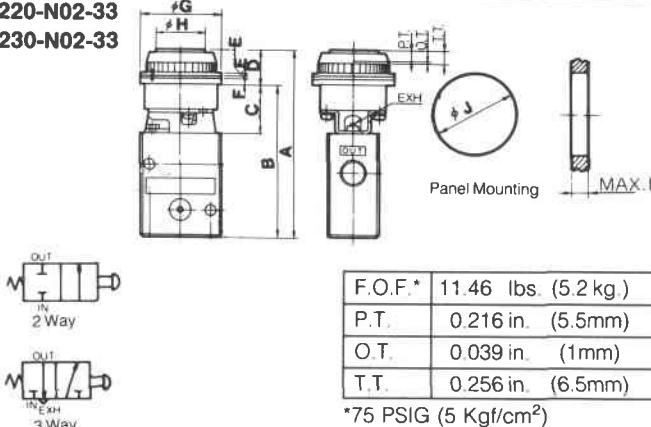
**NVM220-N02-32
230-N02-32**



A	B	C	D	E	F	G	H	J	K
3.88 (98.5)	3.01 (76.5)	0.96 (24.5)	0.87 (22)	0.06 (1.5)	0.12 (3)	1.57 (40)	0.96 (24.5)	1.20 (30.5)	0.24 (6)

Millimeters in Parentheses

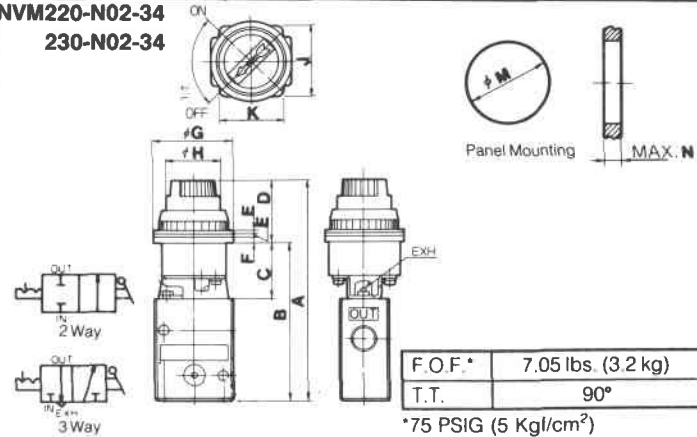
**NVM220-N02-33
230-N02-33**



A	B	C	D	E	F	G	H	J	K
3.70 (94)	3.01 (76.5)	0.96 (24.5)	0.69 (17.5)	0.06 (1.5)	0.12 (3)	1.57 (40)	0.96 (24.5)	1.20 (30.5)	0.24 (6)

Millimeters in Parentheses

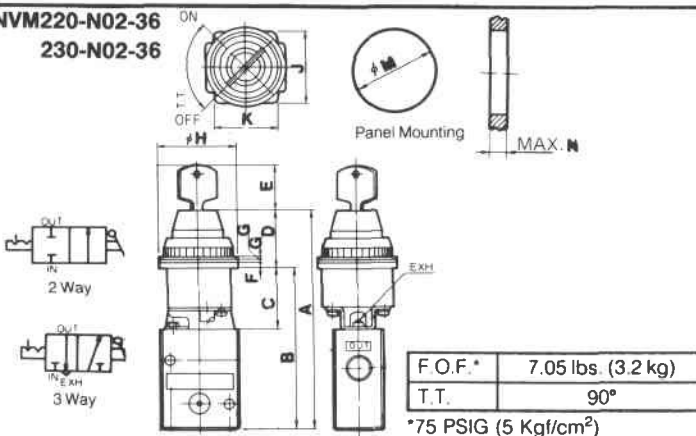
**NVM220-N02-34
230-N02-34**



A	B	C	D	E	F	G	H	J	K	M	N
4.37 (111)	3.15 (80)	1.10 (28)	1.22 (31)	0.06 (1.5)	0.12 (3)	1.57 (40)	1.06 (27)	1.42 (36)	1.26 (32)	1.20 (30.5)	0.24 (6)

Millimeters in Parentheses

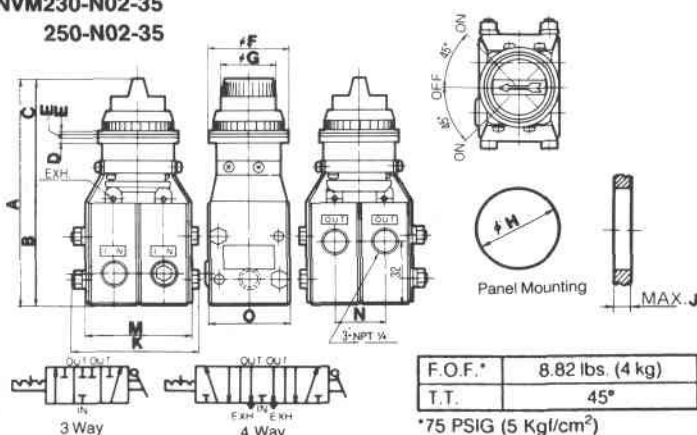
**NVM220-N02-36
230-N02-36**



A	B	C	D	E	F	G	H	J	K	M	N
4.50 (114.3)	3.30 (83.8)	1.25 (31.8)	1.20 (30.5)	0.89 (22.5)	0.06 (1.5)	0.12 (3)	1.57 (40)	1.42 (36)	1.26 (32)	1.20 (30.5)	0.24 (6)

Millimeters in Parentheses

**NVM230-N02-35
250-N02-35**



A	B	C	D	E	F	G	H	J	K	M	N	O
4.45 (113)	3.23 (82)	1.22 (31)	0.12 (3)	0.06 (1.5)	1.57 (40)	1.06 (27)	1.20 (30.5)	0.24 (6)	2.50 (63.5)	2.09 (53.2)	0.98 (25)	1.57 (40)

Millimeters in Parentheses

VM 430



HOW TO ORDER

NVM 430 - N01 - 06S

Valve Series

430 = 3-way; 3 Ports

Port Size

01 = 1/8" NPT

Roller Material (01,02,06,07)

— = Nylon (Standard)

S = Steel

Actuator

01 = Cam Lever

02 = Cam Lever-One Way

05 = Plunger

06 = Roller Plunger, inline

07 = Roller Plunger, Set 90°

08 = Toggle

30 = Push Button-Mushroom*

32 = Push Button-Extended*

33 = Push Button-Flush*

34 = Selector - 90° Turn*

36 = Selector Key

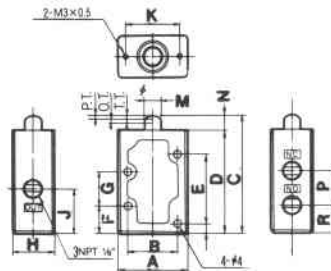
*Specify Color

- B = Black

- G = Green

- R = Red

/M430-N01-00



F.O.F.*lbs. (kg)	5.73(2.6)
P.T. in (mm)	0.06 (1.5)
O.T. in (mm)	0.08 (2)
T.T. in (mm)	0.138 (3.5)

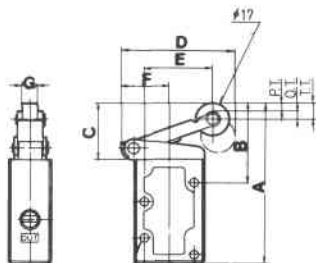


DIMENSIONS

A	B	C	D	E	F	G	H	J	K	M	N	P	R
1.38	0.98	2.38	2.09	1.42	0.53	0.71	0.83	0.89	1.06	0.33	0.29	0.71	0.53
(35)	(25)	(60.5)	(53)	(36)	(13.5)	(18)	(21)	(22.5)	(27)	(8.5)	(7.5)	(18)	(13.5)

Millimeters in Parentheses

/M430-N01-01



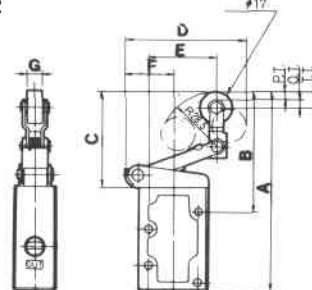
F.O.F.	2.65 lbs. (1.2 kg.)
P.T.	0.157 in. (4mm)
O.T.	0.177 in. (4.5mm)
T.T.	0.334 in. (8.5mm)

A	B	C	D	E	F	G
3.23	2.42	1.14	2.24	1.34	0.96	0.31
(86)	(61.5)	(29)	(57)	(34)	(24.5)	(8)

Millimeters in Parentheses



NVM430-N01-02



F.O.F.	2.43 lbs. (1.1 kg.)
P.T.	0.157 in. (4mm)
O.T.	0.197 in. (5mm)
T.T.	0.334 in. (9mm)

A	B	C	D	E	F	G
4.02	2.42	1.93	2.48	1.42	0.96	0.31
(102)	(61.5)	(49)	(63)	(36)	(24.5)	(8)

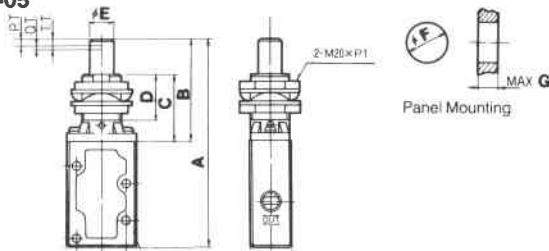
Millimeters in Parentheses



Series NVM

MECHANICAL VALVES DIMENSIONS

NVM430-N01-05



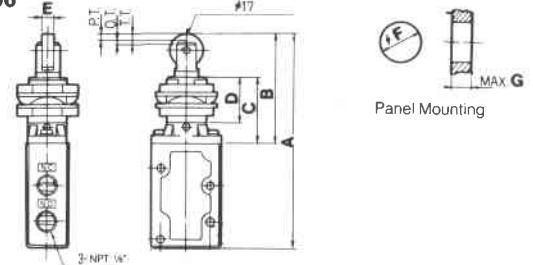
F.O.F.	6.61 lbs. (3 kg.)
P.T.	0.138 in. (3.5mm)
O.T.	0.079 in. (2mm)
T.T.	0.217 in. (5.5mm)



A	B	C	D	E	F	G
4.11 (104.5)	2.03 (51.5)	1.32 (33.5)	0.91 (23)	0.47 (12)	0.81 (20.5)	0.39 (10)

Millimeters in Parentheses

NVM430-N01-06



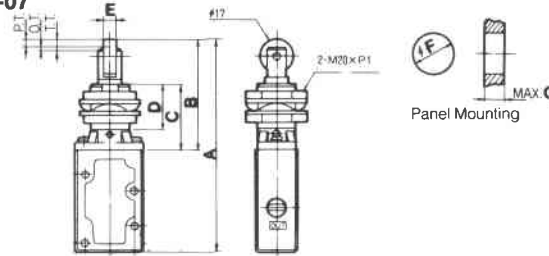
F.O.F.	6.61 lbs. (3 kg.)
P.T.	0.138 in. (3.5 mm)
O.T.	0.079 in. (2 mm)
T.T.	0.217 (5.5 mm)



A	B	C	D	E	F	G
4.29 (109)	2.20 (56)	1.32 (33.5)	0.91 (23)	0.24 (6)	0.81 (20.5)	0.39 (10)

Millimeters in Parentheses

NVM430-N01-07



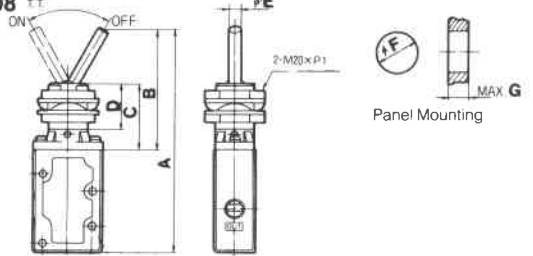
F.O.F.	6.61 lbs. (3 kg)
P.T.	0.138 in. (3.5 mm)
O.T.	0.079 in. (2 mm)
T.T.	0.217 (5.5 mm)



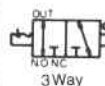
A	B	C	D	E	F	G
4.29 (109)	2.20 (56)	1.32 (33.5)	0.91 (23)	0.24 (6)	0.81 (20.5)	0.39 (10)

Millimeters in Parentheses

NVM430-N01-08



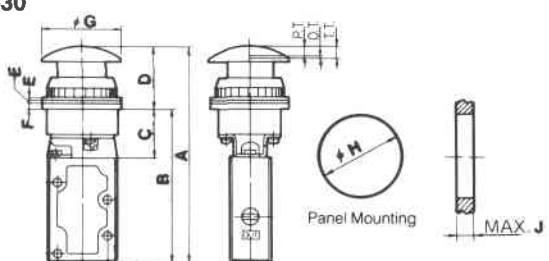
F.O.F.	1.54 lbs. (0.7 kg.)
T.T.	60°



A	B	C	D	E	F	G
4.47 (113.5)	2.38 (60.5)	1.32 (33.5)	0.91 (23)	0.24 (6)	0.81 (20.5)	0.39 (10)

Millimeters in Parentheses

NVM430-N01-30



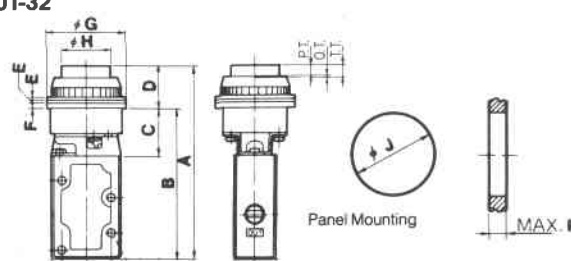
F.O.F.	5.73 lbs. (2.6 kg.)
P.T.	0.216 in. (5.5mm)
O.T.	0.039 in. (1mm)
T.T.	0.256 in. (6.5mm)



A	B	C	D	E	F	G	H	J
4.33 (110)	3.05 (77.5)	0.96 (24.5)	1.28 (32.5)	0.06 (1.5)	0.12 (3)	1.54 (39)	1.20 (30.5)	0.24 (6)

Millimeters in Parentheses

NVM430-N01-32



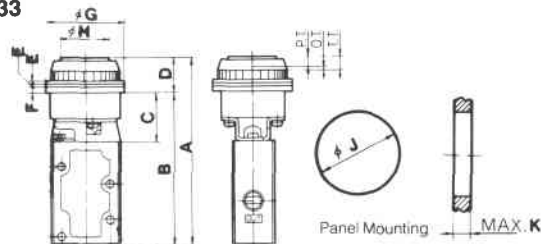
F.O.F.	5.73 lbs. (2.6 kg)
P.T.	0.216 in. (5.5 mm)
O.T.	0.039 in. (1 mm)
T.T.	0.256 in. (6.5 mm)



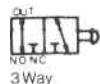
A	B	C	D	E	F	G	H	J	K
3.92 (99.5)	3.05 (77.5)	0.96 (24.5)	0.87 (22)	0.06 (1.5)	0.12 (3)	1.57 (40)	0.96 (24.5)	1.20 (30.5)	0.24 (6)

Millimeters in Parentheses

/M430-N01-33



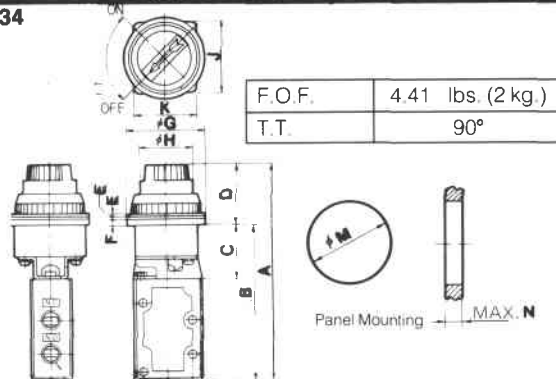
F.O.F.	5.73 lbs. (2.6 kg)
P.T.	0.216 in. (5.5 mm)
O.T.	0.039 in. (1 mm)
T.T.	0.256 in. (6.5 mm)



A	B	C	D	E	F	G	H	J	K
3.74 (95)	3.05 (77.5)	0.96 (24.5)	0.69 (17.5)	0.06 (1.5)	0.12 (3)	1.57 (40)	0.96 (24.5)	1.20 (30.5)	0.24 (6)

Millimeters in Parentheses

NVM430-N01-34



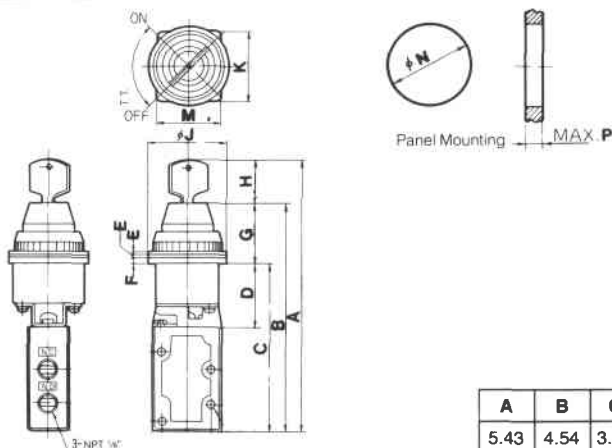
F.O.F.	4.41 lbs. (2 kg.)
T.T.	90°



A	B	C	D	E	F	G	H	J	K	M	N
4.41 (112)	3.19 (81)	1.10 (28)	1.22 (31)	0.06 (1.5)	0.12 (3)	1.57 (40)	1.06 (27)	1.42 (36)	1.26 (32)	1.20 (30.5)	0.24 (6)

Millimeters in Parentheses

/M430-N01-36



F.O.F.	4.41 lbs. (2 kg)
T.T.	90°



A	B	C	D	E	F	G	H	J	K	M	N	P
5.43 (137.8)	4.54 (115.3)	3.34 (84.8)	1.25 (31.8)	0.06 (1.5)	0.12 (3)	1.20 (30.5)	0.89 (22.5)	1.57 (40)	1.42 (36)	1.26 (32)	1.20 (30.5)	0.24 (6)

Millimeters in Parentheses

VM 830 MIT VALVE

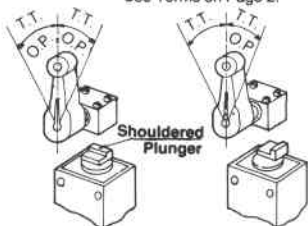


HOW TO ORDER

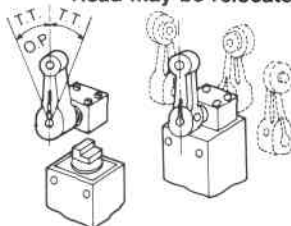
- NVM830-N01-00 = 3-way, 3-port - 1/8" NPT Valve Body Only
- NVM830-N01-01 = 3-way, 3-port - 1/8" NPT w/Roller Lever
- NVM830-N01-13 = 3-way, 3-port - 1/8" NPT w/Adjustable Roller Lever
- NVM830-N01-14 = 3-way, 3-port - 1/8" NPT w/Adjustable Rod Lever

CHANGING CAM DIRECTION

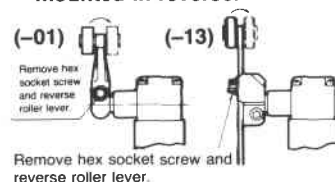
See Terms on Page 2.



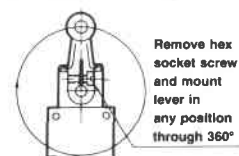
Head may be relocated.



Roller Lever may be mounted in reverse.



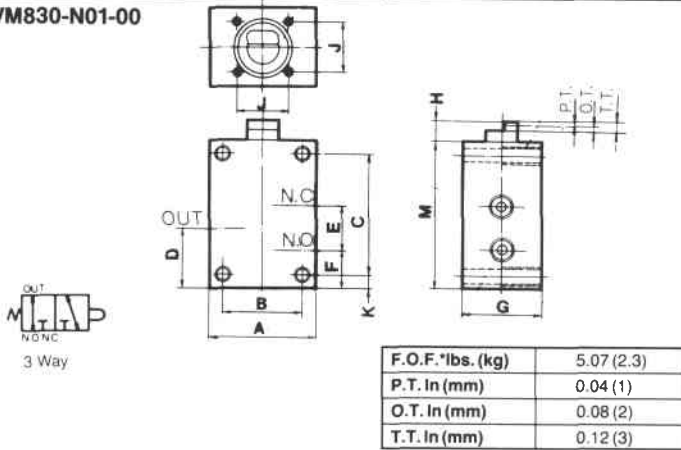
Mounting position of lever may be changed.



Series NVM

MECHANICAL VALVES DIMENSIONS

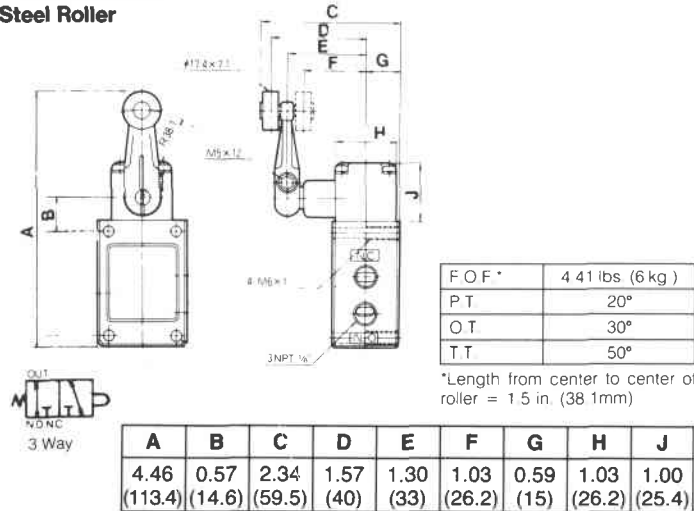
NVM830-N01-00



A	B	C	D	E	F	G	H	J	K	M
1.57 (40)	1.18 ± 0.008 (30 ± 0.2)	1.85 ± 0.008 (47 ± 0.2)	1.32 (33.5)	0.71 (18)	0.96 (24.5)	1.18 (30)	0.30 (7.5)	0.75 ± 0.008 (19 ± 0.2)	0.20 (5)	2.24 (57)

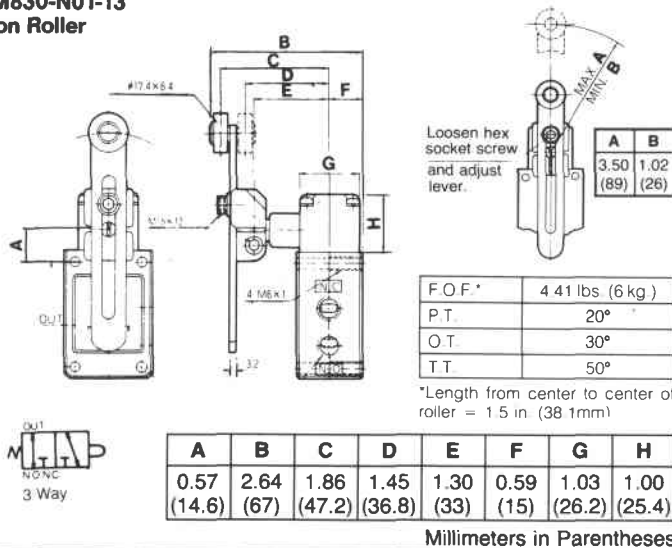
Millimeters in Parentheses

NVM830-N01-01 Steel Roller



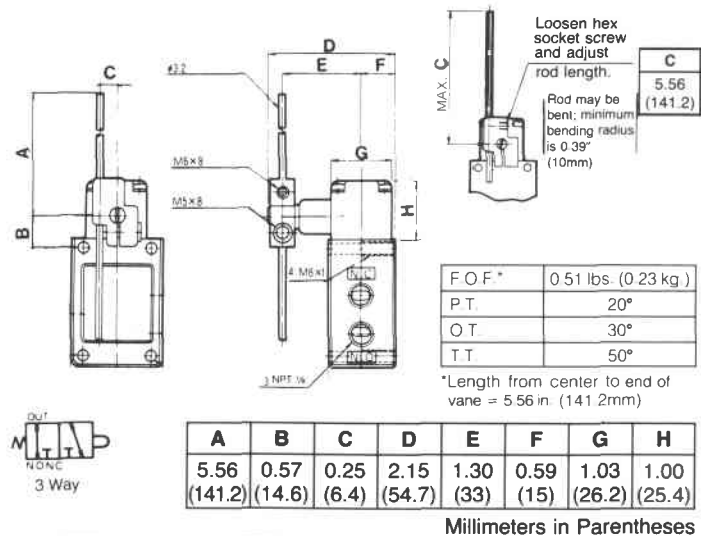
Millimeters in Parentheses

NVM830-N01-13 Nylon Roller



Millimeters in Parentheses

NVM830-N01-14



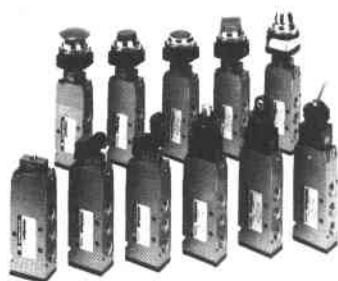
Millimeters in Parentheses

ACTUATOR SUB ASSEMBLY

Description	Roller Mat.	VM 100 Part No.	VM 200-400 Part No.	VM 830 Part No.
Cam Lever	Nyl.	These valves are only offered with Actuator assemblies permanently attached to the valve body.	VM 01A (1)	—
Cam Lever	Stl.		VM 01AS (1)	—
Cam Lever One-Way	Nyl.		VM 02A (1)	—
Cam Lever One-Way	Stl.		VM 02AS (1)	—
Plunger	—	VM 05B (1)	VM 05A (2)	—
Roller Plunger-inline	Nyl.	VM 06B (1)	VM 06A (2)	—
Roller Plunger-inline	Stl.	VM 06BS (1)	VM 06AS (2)	—
Roller Plunger-Set 90°	Nyl.	VM 07B (1)	VM 07A (2)	—
Roller Plunger-Set 90°	Stl.	VM 07BS (1)	VM 07AS (2)	—
Toggle Lever	—	VM 08B (1)	VM 08A (2)	—
Push Button-Mushroom*	—	VM 30A* (1)	VM 30A* (1)	—
Push Button-Extended*	—	VM 32A* (1)	VM 32A* (1)	—
Push Button-Flush*	—	VM 33A* (1)	VM 33A* (1)	—
Selector 90° Turn*	—	VM 34A* (1)	VM 34A* (1)	—
Selector Key Lock	—	VM 36A (1)	VM 36A (1)	—
Roller Lever Arm	Stl.	—	—	VM 01F (3)
Roller Adj. Lever Arm	Stl.	—	—	VM 13F (3)
Rod Adj. Lever Arm	—	—	—	VM 14F (3)

*Specify Button Color (black, red, green)

Note: MTG Screws
1.) 2-M3x8
2.) 2-M3x10
3.) 4-M3x27



FEATURES

- Patented Spool and Sleeve Design
- High Flow vs. Small Package Size
- Variety of Mechanical Actuators
- Air Piloted Spring Assist for Positive Return
- External Pilot Available for Vacuum and Low-Pressure Operation

SPECIFICATIONS

CHARACTERISTICS		NVZM450	NVFM250
Port Size (NPTF)		1/8", PE 10-32 (NOM.M5)	1/4", PE 10-32 (NOM. M5)
C _v		0.55	1.0
Max. Supply Pressure		220 PSIG (15 Kgf/cm ²)	
Operating Pressure		22-150 PSIG (1.5-9.9 Kgf/cm ²)	15-150 PSIG (1-9.9 Kgf/cm ²)
Operating Temperature		40-140°F (5-60°C)	
Materials	Body	Aluminum Die Cast	
	Spool & Sleeve	440F Stainless Steel, passivated & heat treated to 58-63 Rockwell C.	
	Sleeve O-Rings	Buna N	
	Spacer	Delrin	
	Shock Pad	Urethane Rubber	
Max. Cycle Rate		300 CPM	
Weight (Valve Body Only) oz. (g)		5.1 (144.6)	10.3 (292)

SMC has a unique design for the Series NVM, NVFM, NVZM mechanically actuated, pilot-operated, 4-way/5-ported valves. It combines pilot air for shifting the main valve, as well as assisting the return spring for smooth constant operation. The combination of these two features, plus the elimination of direct mechanical linkage ensures long operational life.

HOW TO ORDER

Valve Series NVFM 250 **— N02 — 02** **S**
 NVFM 250(1) - C_v1.0
 NVZM 450(1) - C_v0.55

Pilot Supply
 0 = Internal Pilot From "P" Port
 1 = External Pilot Supply (Special Order Only)

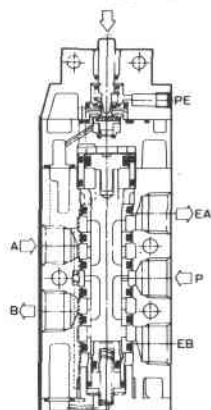
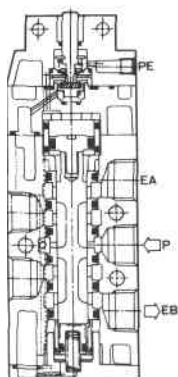
Port Size (NPT)
 01 = 1/8" VZM450 Only
 02 = 1/4" VFM250 Only

Roller Material (01, 02, 06)
 — = Acetal (Standard)
 S = Steel

Actuator
 00 = Valve Body Only
 01 = Standard Cam Lever
 02 = Cam Lever-One Way
 05 = Plunger
 06 = Roller Plunger, Inline
 08 = Toggle Lever
 30 = Push Button-Mushroom*
 32 = Push Button-Extended*
 33 = Push Button-Flush*
 34 = Selector - 90° Turn*
 36 = Selector Key Lock
 *Specify Color
 - B = Black
 - G = Green
 - R = Red

ACTUATED

REST POSITION



HOW IT WORKS

When air pressure is supplied to the "P" port of the valve, pressure is internally supplied to the actuator pilot assembly, as well as the return spring of the valve. When a mechanical force is applied to the actuator stem, the pilot is opened allowing air pressure to shift the main valve spool. When the mechanical force is removed, the Twin Spring Pilot Assembly and the pilot-assisted return spring provides fast and accurate spool return.

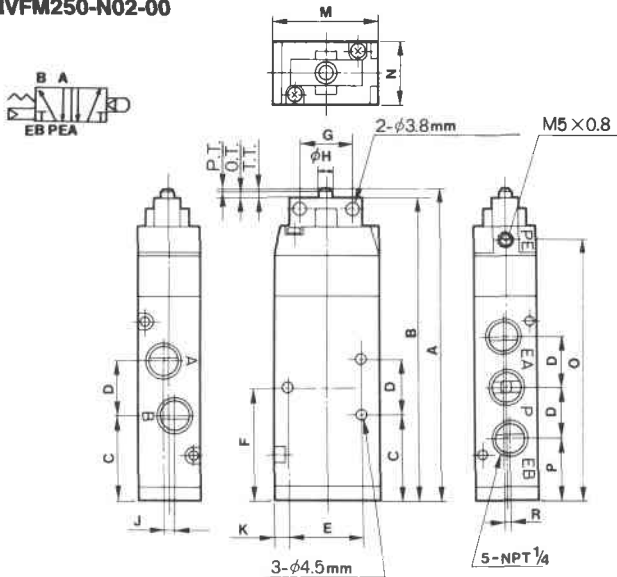
OPERATION REQUIREMENTS

Actuator (Suffix #)	Lever Angle	Speed ft./sec. (m/sec.)
Cam Lever (-01C)	30°	2.29 (0.7)
	45°	0.98 (0.3)
One-Way Cam Lever (-02C)	30°	2.29 (0.7)
	45°	0.98 (0.3)
Plunger (-05C; -05D)	—	0.65 (0.2)
Roller Plunger, Inline (-06C; -06D)	30°	0.98 (0.3)

Series NVM

MECHANICALLY ACTUATED/PILOT OPERATED DIMENSIONS NVFM250

NVFM250-N02-00



A	B	C	D	E	F	G	H	J	K	M	N	O	P	R
4.65 (118.2)	4.56 (114.7)	1.27 (32.2)	0.80 (20.4)	1.10 (28)	1.67 (42.2)	0.79 (20)	1.89 (48)	0.16 (4)	2.17 (55)	1.57 (40)	0.91 (23)	3.89 (98.7)	0.87 (22)	0.08 (2)

Millimeters in Parentheses

ACTUATOR SUB ASSEMBLIES

Description	Roller Material	NVFM250 Part #	NVZM450 Part #
Cam Lever	Acetal	VM-01C	VM-01C
Cam Lever	Steel	VM-01CS	VM-01CS
Cam Lever One-Way	Acetal	VM-02C	VM-02C
Cam Lever One-Way	Steel	VM-02CS	VM-02CS
Plunger	—	VM-05D	VM-05C
Roller Plunger In Line	Acetal	VM-06D	VM-06C
Roller Plunger In Line	Steel	VM-06DS	VM-06CS
Toggle Lever	—	VM-08D	VM-08C
Push Button-Mushroom*	—	VM-30C	VM-30C
Push Button-Extended*	—	VM-32C	VM-32C
Push Button-Flush*	—	VM-33C	VM-33C
Selector, 90° Turn*	—	VM-34C	VM-34C
Selector Key Lock	—	VM-36C	VM-36C

* Specify Button Color (black, red, green)

F.O.F.*	3.53 lbs. (1.6 Kg)
P.T.	0.04 in. (1 mm)
O.T.	0.08 in. (2.0 mm)
T.T.	0.12 in. (3 mm)

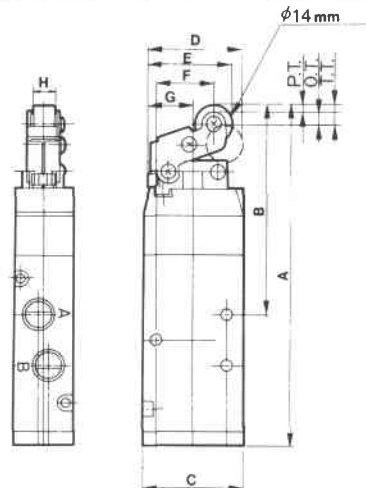
*75 PSIG (5 Kgf/cm²)

NVFM250-N02-01



A	B	C	D	E	F	G	H
5.36 (136.2)	3.29 (83.6)	1.57 (40)	1.46 (37)	1.30 (33)	0.93 (23.5)	0.67 (17)	0.31 (8)

Millimeters in Parentheses



* Actuators may be rotated to operate without changing port location:
Remove screws and reverse actuator.

F.O.F.*	1.76 lbs. (0.8 Kg)
P.T.	0.87 in. (2.2 mm)
O.T.	0.16 in. (4.0 mm)
T.T.	0.24 in. (6.2 mm)

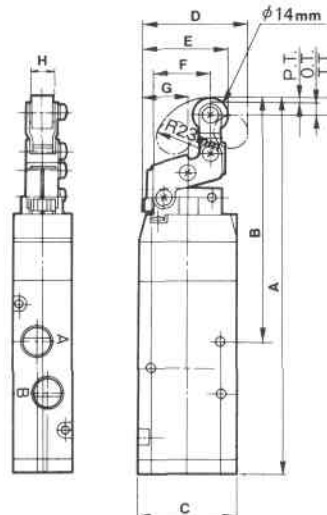
*75 PSIG (5 Kgf/cm²)

NVFM250-N02-02



A	B	C	D	E	F	G	H
5.95 (151.2)	3.88 (98.6)	1.57 (40)	1.65 (42)	1.30 (33)	0.93 (23.5)	0.67 (17)	0.31 (8)

Millimeters in Parentheses



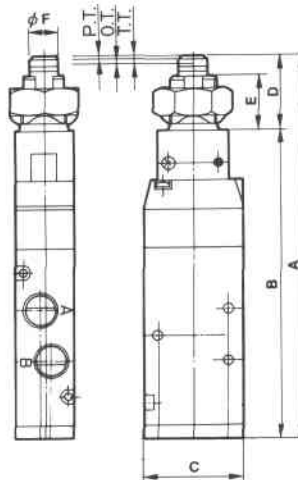
* Actuators may be rotated to operate without changing port location:
Remove screws and reverse actuator.

F.O.F.*	1.54 lbs. (0.7 Kg)
P.T.	0.09 in. (2.4 mm)
O.T.	0.18 in. (4.6 mm)
T.T.	0.28 in. (7.0 mm)

*75 PSIG (5 Kgf/cm²)

DIMENSIONS
NVFM250

VFM250-N02-05



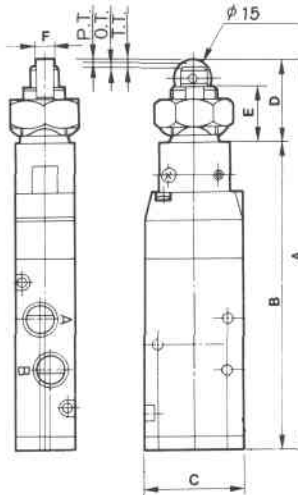
A	B	C	D	E	F	G	H	J
6.05 (153.7)	4.87 (123.7)	1.57 (40)	1.18 (30)	0.87 (22)	0.43 (11)	0.75 (19)	0.12 (3)	0.43 (11)

Millimeters in Parentheses

F.O.F.*	4.41 lbs. (2 Kg)
P.T.	0.06 in. (1.5 mm)
O.T.	0.08 in. (2.0 mm)
T.T.	0.14 in. (3.5 mm)

*75 PSIG (5 Kg/cm²)

VFM250-N02-06



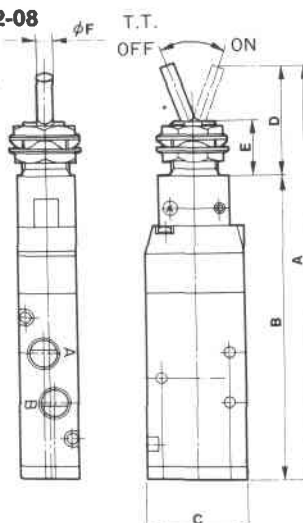
A	B	C	D	E	F	G	H	J
6.17 (156.7)	4.87 (123.7)	1.57 (40)	1.30 (33)	0.87 (22)	0.28 (7)	0.75 (19)	0.12 (3)	0.43 (11)

Millimeters in Parentheses

F.O.F.*	4.41 lbs. (2 Kg)
P.T.	0.06 in. (1.5 mm)
O.T.	0.08 in. (2.0 mm)
T.T.	0.14 in. (3.5 mm)

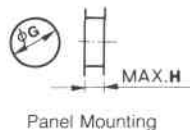
*75 PSIG (5 Kg/cm²)

VFM250-N02-08



F.O.F.*	3.31 lbs. (1.5 Kg)
T.T.	40°

*75 PSIG (5 Kg/cm²)

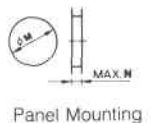
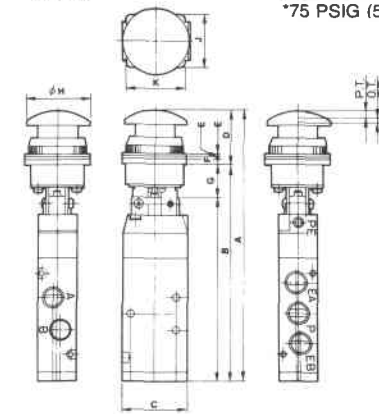


* May be rotated without changing port location.

A	B	C	D	E	F	G	H
6.65 (167.9)	4.87 (123.7)	1.57 (40)	1.78 (45.2)	0.87 (22)	0.22 (5.5)	0.75 (19)	0.30 (7.5)

Millimeters in Parentheses

NVFM250-N02-30



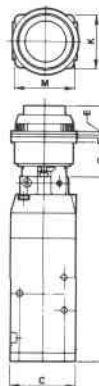
F.O.F.*	4.63 lbs. (2.1 Kg)
P.T.	0.17 in. (4.4 mm)
O.T.	0.08 in. (2.0 mm)
T.T.	0.25 in. (6.4 mm)

*75 PSIG (5 Kg/cm²)

A	B	C	D	E	F	G	H	J	K	M	N
6.60 (167.6)	5.32 (135.1)	1.57 (40)	1.28 (32.5)	0.06 (1.5)	0.12 (3)	0.80 (20.4)	1.54 (39)	1.26 (32)	1.42 (36)	1.20 (30.5)	0.24 (6)

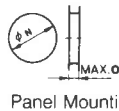
Millimeters in Parentheses

NVFM250-N02-32



F.O.F.*	4.63 lbs.	(2.1 Kg)
P.T.	0.17 in.	(4.4 mm)
O.T.	0.08 in.	(2.0 mm)
T.T.	0.25 in.	(6.4 mm)

*75 PSIG (5 Kgf/cm²)

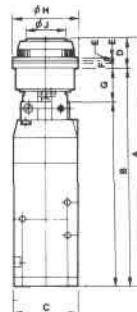


Panel Mounting

A	B	C	D	E	F	G	H	J	K	M	N	O
6.19 (157.1)	5.32 (135.1)	1.57 (40)	0.87 (22)	0.06 (1.5)	0.12 (3)	0.80 (20.4)	1.57 (40)	0.96 (24.5)	1.26 (32)	1.42 (36)	1.20 (30.5)	0.24 (6)

Millimeters in Parentheses

NVFM250-N02-33



F.O.F.*	4.63 lbs.	(2.1 Kg)
P.T.	0.17 in.	(4.4 mm)
O.T.	0.08 in.	(2.0 mm)
T.T.	0.25 in.	(6.4 mm)

*75 PSIG (5 Kgf/cm²)

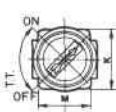
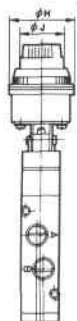


Panel Mounting

A	B	C	D	E	F	G	H	J	K	M	N	O
6.01 (152.6)	5.32 (135.1)	1.57 (40)	0.69 (17.5)	0.06 (1.5)	0.12 (3)	0.80 (20.4)	1.57 (40)	1.06 (27)	1.26 (32)	1.42 (36)	1.20 (30.5)	0.24 (6)

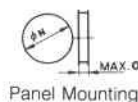
Millimeters in Parentheses

NVFM250-N02-34



F.O.F.*	5.07 lbs.	(2.3 Kg)
T.T.	90°	

*75 PSIG (5 Kgf/cm²)

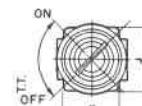
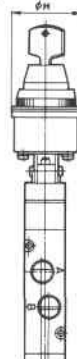


Panel Mounting

A	B	C	D	E	F	G	H	J	K	M	N	O
6.68 (169.6)	5.46 (138.6)	1.57 (40)	1.22 (31)	0.06 (1.5)	0.12 (3)	0.94 (23.9)	1.57 (40)	1.06 (27)	1.42 (36)	1.26 (32)	1.20 (30.5)	0.24 (6)

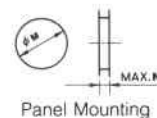
Millimeters in Parentheses

NVFM250-N02-36



F.O.F.*	5.73 lbs.	(2.6 Kg)
T.T.	90°	

*75 PSIG (5 Kgf/cm²)

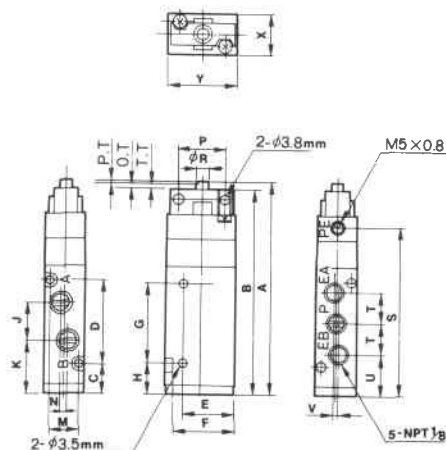


Panel Mounting

A	B	C	D	E	F	G	H	J	K	M	N
6.80 (172.9)	5.61 (142.4)	1.57 (40)	1.20 (30.5)	0.06 (1.5)	1.09 (27.7)	0.89 (22.5)	1.57 (40)	1.42 (36)	1.26 (32)	1.20 (30.5)	0.24 (6)

Millimeters in Parentheses

NVZM450-N01-00



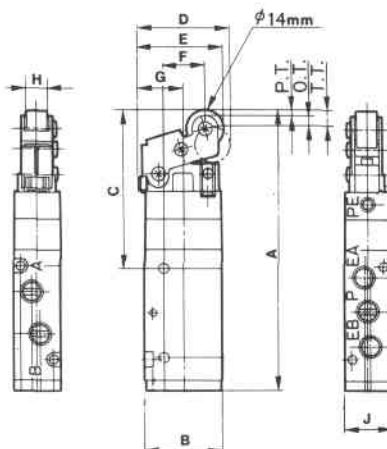
A	B	C	D	E	F	G	H	J	K	M	N	P	R	S	T	U	V	X	Y
3.72 (94.5)	3.58 (91)	0.50 (12.8)	1.50 (38)	0.89 (22.5)	1.05 (26.7)	1.42 (36)	0.54 (13.8)	0.67 (17)	0.92 (23.3)	0.51 (13)	0.12 (3)	0.79 (20)	0.19 (4.8)	2.95 (75)	0.55 (14)	17.8 (17.8)	0.08 (2)	0.71 (18)	1.18 (30)

Millimeters in Parentheses

F.O.F.*	3.53 lbs.	(1.6 Kg)
P.T.	0.04 in.	(1.0 mm)
O.T.	0.08 in.	(2.0 mm)
T.T.	0.12 in.	(3.0 mm)

*75 PSIG (5 Kgf/cm²)

NVZM450-N01-01



A	B	C	D	E	F	G	H	J
4.43 (112.5)	3.58 (91)	2.47 (62.7)	1.46 (37)	1.30 (33)	0.65 (16.5)	0.67 (17)	0.31 (8)	0.71 (18)

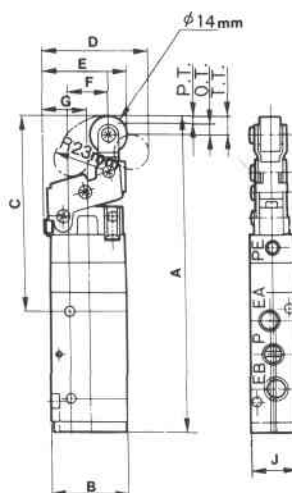
Millimeters in Parentheses

F.O.F.*	1.76 lbs.	(0.8 Kg)
P.T.	0.09 in.	(2.2 mm)
O.T.	0.16 in.	(4.0 mm)
T.T.	0.24 in.	(6.2 mm)

*75 PSIG (5 Kg/cm²)

* Actuators may be rotated to operate without changing port location:
Remove screws and reverse actuator.

VZM450-N01-02



A	B	C	D	E	F	G	H	J
5.02 (127.5)	1.18 (30)	3.06 (77.7)	1.65 (42)	1.30 (33)	0.65 (16.5)	0.67 (17)	0.31 (8)	0.71 (18)

Millimeters in Parentheses

* Actuators may be rotated to operate without changing port location:
Remove screws and reverse actuator.

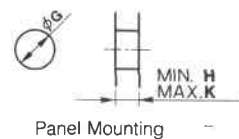
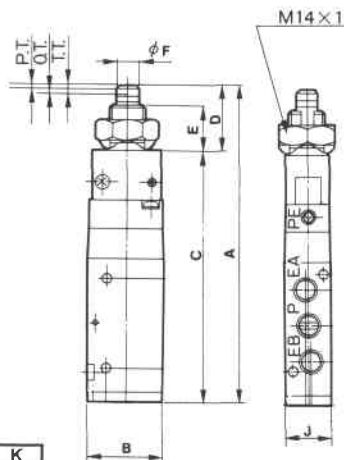
F.O.F.*	1.54 lbs.	(0.7 Kg)
P.T.	0.09 in.	(2.4 mm)
O.T.	0.18 in.	(4.6 mm)
T.T.	0.28 in.	(7.0 mm)

*75 PSIG (5 Kg/cm²)

Series NVM

MECHANICALLY ACTUATED/PILOT OPERATED DIMENSIONS NVZM450

NVZM450-N01-05



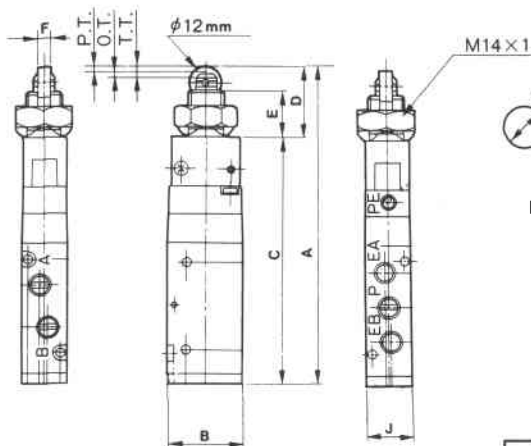
A	B	C	D	E	F	G	H	J	K
4.92 (125)	1.18 (30)	3.94 (100)	0.98 (25)	0.69 (17.5)	0.33 (8.5)	0.59 (15)	0.10 (2.5)	0.71 (1.8)	0.37 (9.5)

Millimeters in Parentheses

F.O.F.*	3.97 lbs.	(1.8 Kg)
P.T.	0.06 in.	(1.5 mm)
O.T.	0.08 in.	(2.0 mm)
T.T.	0.14 in.	(3.5 mm)

*75 PSIG (5 Kgt/cm²)

NVZM450-N01-06



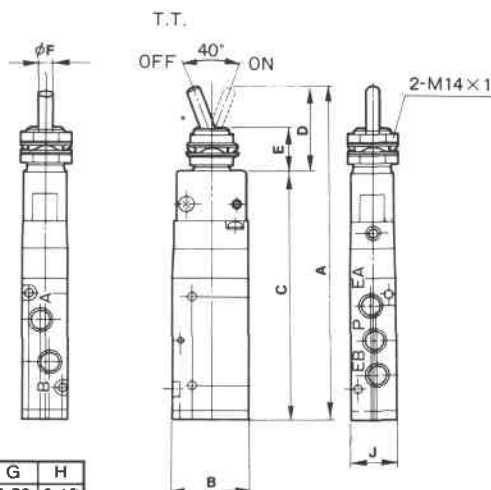
A	B	C	D	E	F	G	H	J	K
4.98 (126.5)	1.18 (30)	3.94 (100)	1.04 (26.5)	0.69 (17.5)	0.20 (5)	0.59 (15)	0.10 (2.5)	0.71 (18)	0.37 (9.5)

Millimeters in Parentheses

F.O.F.*	3.97 lbs.	(1.8 Kg)
P.T.	0.06 in.	(1.5 mm)
O.T.	0.08 in.	(2.0 mm)
T.T.	0.14 in.	(3.5 mm)

*75 PSIG (5 Kgt/cm²)

NVZM450-N01-08



A	B	C	D	E	F	G	H
5.28 (134)	1.18 (30)	3.94 (100)	1.34 (34)	0.69 (17.5)	0.20 (5)	0.59 (15)	0.18 (4.5)

Millimeters in Parentheses

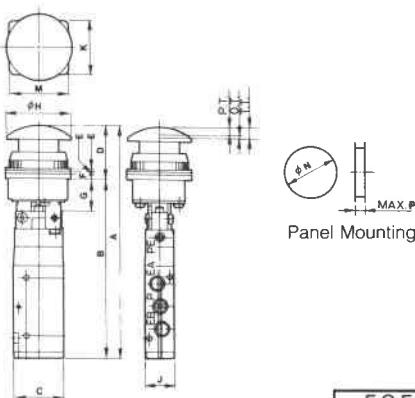
F.O.F.*	3.31 lbs.	(1.5 Kg)
T.T.	40°	

*75 PSIG (5 Kgt/cm²)

* May be rotated without changing port location.

MECHANICALLY ACTUATED/PILOT OPERATED
DIMENSIONS
NVZM450

NVZM450-N01-30



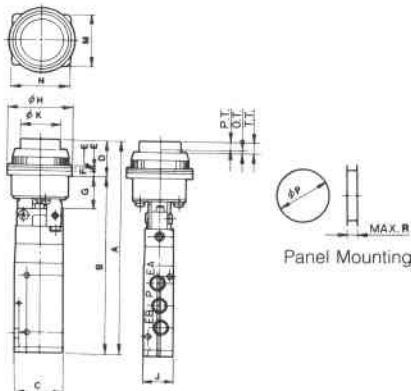
A	B	C	D	E	F	G	H	J	K	M	N	P
5.66 (143.9)	4.39 (111.4)	1.18 (30)	1.28 (32.5)	0.06 (1.5)	0.12 (3)	0.80 (20.4)	1.54 (39)	0.71 (18)	1.26 (32)	1.42 (36)	1.20 (30.5)	0.24 (6)

Millimeters in Parentheses

F.O.F.*	4.63 lbs.	(2.1 Kg)
P.T.	0.17 in.	(4.4 mm)
O.T.	0.08 in.	(2.0 mm)
T.T.	0.25 in.	(6.4 mm)

*75 PSIG (5 Kg/cm²)

NVZM450-N01-32



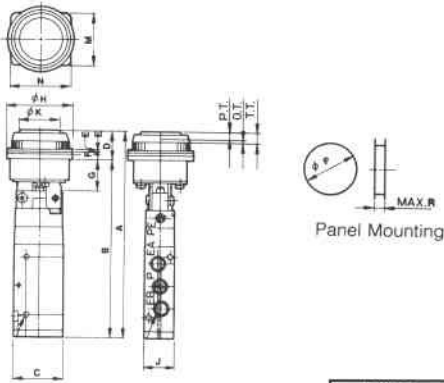
A	B	C	D	E	F	G	H	J	K	M	N	P	R
5.25 (133.4)	4.39 (111.4)	1.18 (30)	0.87 (22)	0.06 (1.5)	0.12 (3)	0.80 (20.4)	1.57 (40)	0.71 (18)	0.96 (24.5)	1.26 (32)	1.42 (36)	1.20 (30.5)	0.24 (6)

Millimeters in Parentheses

F.O.F.*	4.63 lbs.	(2.1 Kg)
P.T.	0.17 in.	(4.4 mm)
O.T.	0.08 in.	(2.0 mm)
T.T.	0.25 in.	(6.4 mm)

*75 PSIG (5 Kg/cm²)

NVZM450-N01-33



A	B	C	D	E	F	G	H	J	K	M	N	P	R
5.07 (128.9)	4.39 (111.4)	1.18 (30)	0.69 (17.5)	0.06 (1.5)	0.12 (3)	0.80 (20.4)	1.57 (40)	0.71 (18)	0.96 (24.5)	1.26 (32)	1.42 (36)	1.20 (30.5)	0.24 (6)

Millimeters in Parentheses

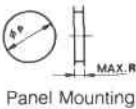
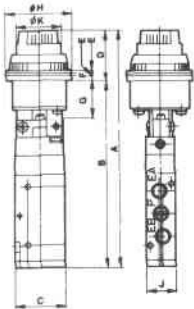
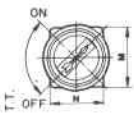
F.O.F.*	4.63 lbs.	(2.1 Kg)
P.T.	0.17 in.	(4.4 mm)
O.T.	0.08 in.	(2.0 mm)
T.T.	0.25 in.	(6.4 mm)

*75 PSIG (5 Kg/cm²)

Series NVM

MECHANICALLY ACTUATED/PILOT OPERATED
DIMENSIONS
NVZM450

ZM450-N01-34



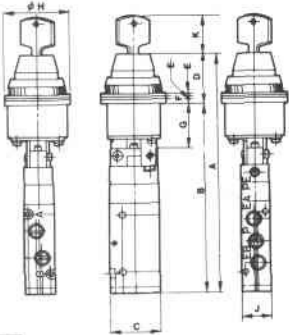
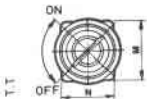
A	B	C	D	E	F	G	H	J	K	M	N	P	R
5.74	4.52	1.18	1.22	0.06	0.12	1.06	1.57	0.71	1.06	1.42	1.26	1.20	0.24
(145.9)	(114.9)	(30)	(31)	(1.5)	(3)	(23.9)	(40)	(18)	(27)	(36)	(32)	(30.5)	(6)

Millimeters in Parentheses

F.O.F.*	5.07 lbs. (2.3 Kg)
T.T.	90°

*75 PSIG (5 Kgt/cm²)

ZM450-N01-36



A	B	C	D	E	F	G	H	J	K	M	N	P	R
5.87	4.67	1.18	1.20	0.06	0.12	1.09	1.57	0.71	0.89	1.42	1.26	1.20	0.24
(149.2)	(118.7)	(30)	(30.5)	(1.5)	(3)	(27.7)	(40)	(18)	(22.5)	(36)	(32)	(30.5)	(6)

Millimeters in Parentheses

F.O.F.*	5.73 lbs. (2.6 Kg)
T.T.	90°

*75 PSIG (5 Kgt/cm²)

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