



$$C_v = .52 - .73$$

Series 1 and 3

1/8" Ported Manually Operated Valves

$$C_v = .52 - .73$$

3-way/2-position, 5-way/2-position and 5-way/3-position
Ports 1/8" NPTF

The Series 1 manual valves (1/8", 3-way/2-position and 5-way/2-position) and the Series 3 manual valves (1/8", 3-way/2-position, 5-way/2-position and 5-way/3-position) are available with actuators designed to satisfy different needs. For series 3, the 3-way/2-position valves are normally closed when P is the inlet; they can also be normally open when R is the inlet. They can be operated with vacuum down to -.9 bar (28" Hg). Additionally, the series 3 valves can be supplied with 2 different pressures into ports 3 and 5 if a cylinder requires different extend and retract forces. The series 1 valves offer a more rugged, compact design with steel operator interfaces.



TECHNICAL SPECIFICATIONS

Valve group	3-way/2-position, 5-way/2-position, 5-way/3position
Construction	Spool type Series 3, Poppet type Series 1
Mounting	Mounting holes in valve body
Materials	Anodized body, Stainless steel spool, Buna-N seals, Brass Poppet (Series 1)
Threaded port sizes	1/8" NPTF
Installation	Manifold, or single panel mount
Operating temperature	32°F - 175°F, (dry air necessary down to -4° F)
Fluid	Filtered air (25 micron or less recommended)
Lubricant	Not required; otherwise, only oil compatible with Buna-N, (-3° - 10° E) (ISOVG32 grade; 32 center strokes)

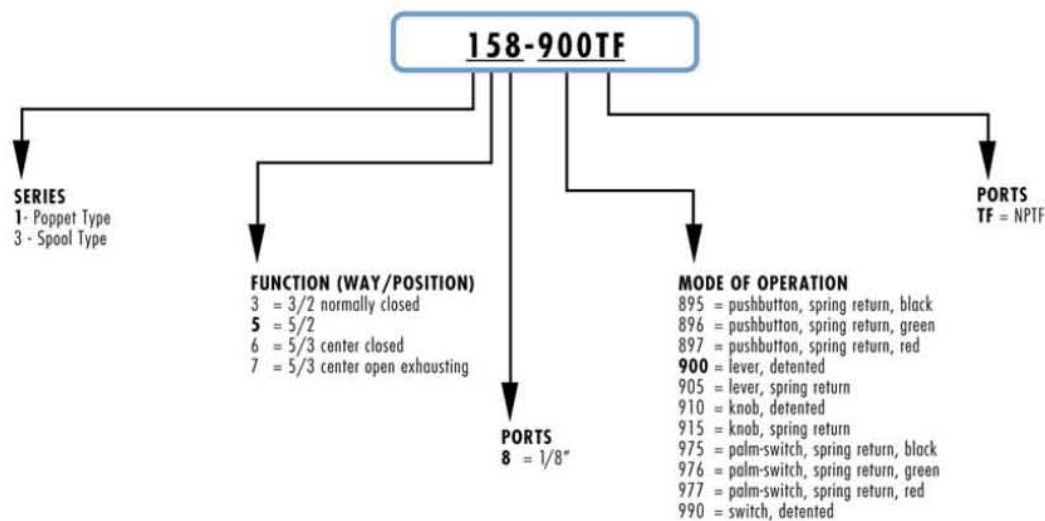
PNEUMATIC DATA

Operating pressure	0 - 10 bar, (0 - 145 psi) (down to -.9 bar vacuum; 28" Hg with series 3)
Nominal pressure	6 bar, (87 psi)
Nominal flow	*Qn Series 3: 1/8" = 700 NL/min. (24.7 SCFM)
	Series 1: 1/8" = 500 NL/min. (17.65 SCFM)
Nominal diameter	1/8" = 5 mm
Cv Rating	Series 3: 1/8" = 0.73
	Series 1: 1/8" = 0.52

*Qn flowrate (SCFM) determined with a supply pressure of 6 bar (87 psi), and with a pressure drop of 1 bar (14.5 psi).

** Soft-seal repair kits are available on request.

***Dimensions are in millimeters


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CODING OF MINIVALVES

Manually operated valves


Mod. 138-935TF



Mod. 138-900TF



Mod. 158-900TF



Mod. 338-990TF



Mod. 358-990TF


 Mod. 338-895TF
 Mod. 338-896TF
 Mod. 338-897TF

 Mod. 358-895TF
 Mod. 358-896TF
 Mod. 358-897TF

 Mod. 338-975TF
 Mod. 338-976TF
 Mod. 338-977TF

 Mod. 358-975TF
 Mod. 358-976TF
 Mod. 358-977TF

 Mod. 338-910TF
 Mod. 338-915TF

 Mod. 358-910 TF
 Mod. 358-915 TF

 Mod. 338-900TF
 Mod. 338-905TF

 Mod. 358-900TF
 Mod. 358-905TF

 Mod. 368-900TF
 Mod. 368-905TF

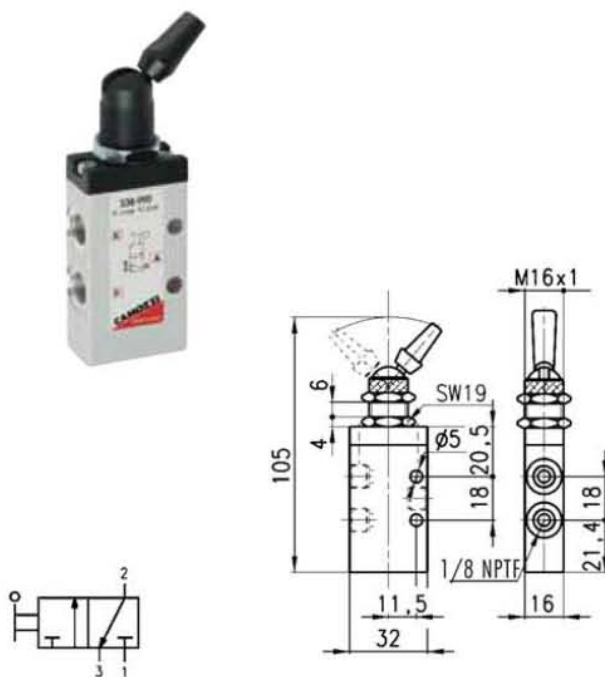
 Mod. 378-900TF
 Mod. 378-905TF


 $C_v = .73$

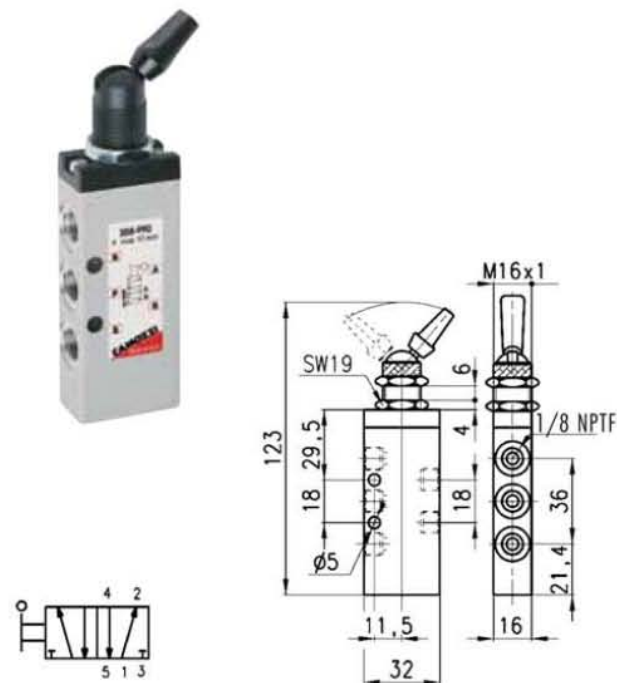
MANUAL VALVES

1
Valves Mod. 338-990TF
 $C_v = .73$

Actuation Force at 87 psi = 4.04 lbf


Valves Mod. 358-990TF
 $C_v = .73$

Actuation Force at 87 psi = 4.04 lbf

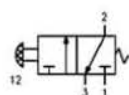

Valves Mod. 338-895TF
 $C_v = .73$

Actuation Force at 87 psi = 7.9 lbf



Mod.	Button Color
338-895TF	Black
338-896TF	Green
338-897TF	Red

*buttons are anodized aluminum

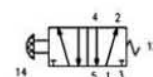

Valves Mod. 358-895TF
 $C_v = .73$

Actuation Force at 87 psi = 7.9 lbf



Mod.	Button Color
358-895TF	Black
358-896TF	Green
358-897TF	Red

*buttons are anodized aluminum

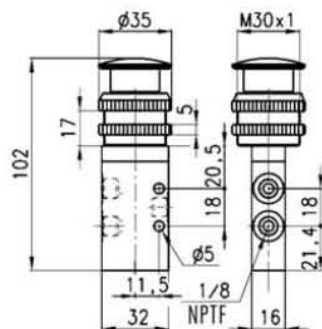



 $C_v = .73$

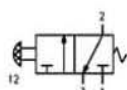
1 MANUAL VALVES

Valves Mod. 338-975TF
 $C_v = .73$

Actuation Force at 87 psi = 7.9 lbf



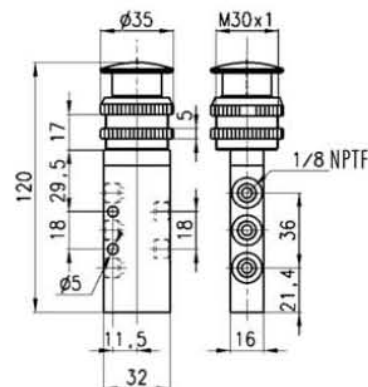
Mod.	Button Color
338-975TF	Black
338-976TF	Green
338-977TF	Red



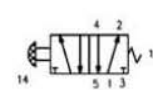
*buttons are anodized aluminum

Valves Mod. 358-975TF
 $C_v = .73$

Actuation Force at 87 psi = 7.9 lbf

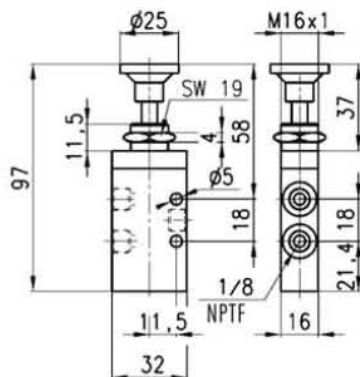


Mod.	Button Color
358-975TF	Black
358-976TF	Green
358-977TF	Red

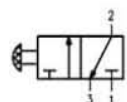


*buttons are anodized aluminum

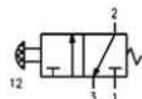
Valves Mod. 338-910TF and Mod. 338-915TF
 $C_v = .73$

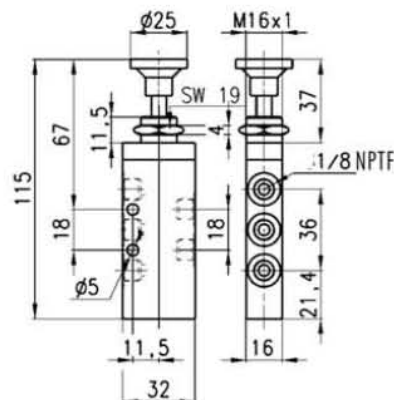
 338-910TF Actuation Force at 87 psi = 1.35 lbf
 338-915TF Actuation Force at 87 psi = 7.9 lbf


Mod.
338-910TF

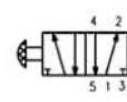


Mod.
338-915TF

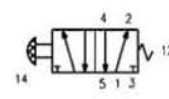

Valves Mod. 358-910TF and Mod. 358-915TF
 $C_v = .73$

 358-910TF Actuation Force at 87 psi = 1.35 lbf
 358-915TF Actuation Force at 87 psi = 7.9 lbf


Mod.
358-910TF

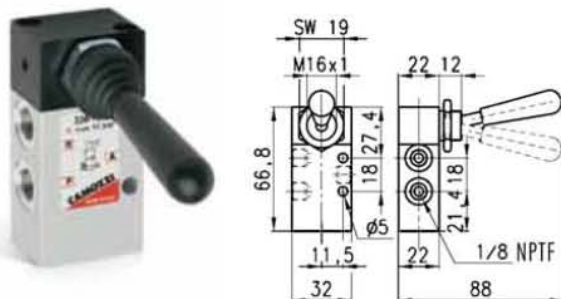


Mod.
358-915TF

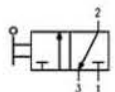



 $C_v = .73$
Valves Mod. 338-900TF and Mod. 338-905TF $C_v = .73$

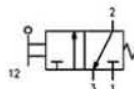
338-900TF Actuation Force at 87 psi = 1.35 lbf
 338-905TF Actuation Force at 87 psi = 7.9 lbf
 *Detent force can be adjusted by means of 5 spring-loaded screws on the side of handle interface



Mod.

338-900TF


Mod.

338-905TF

Valves Mod. 358-900TF and Mod. 358-905TF $C_v = .73$

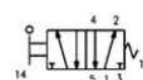
358-900TF Actuation Force at 87 psi = 1.35 lbf
 358-905TF Actuation Force at 87 psi = 7.9 lbf
 *Detent force can be adjusted by means of 5 spring-loaded screws on the side of handle interface



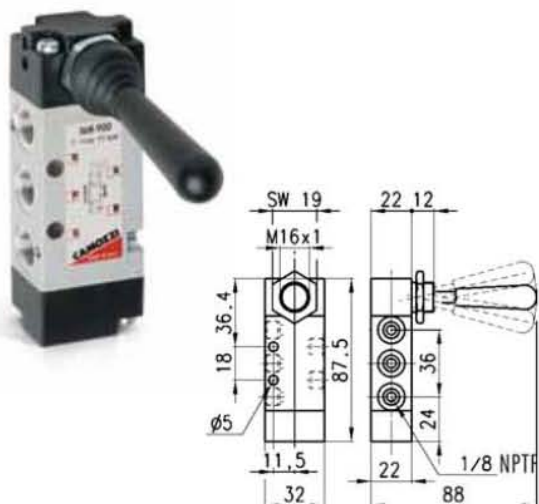
Mod.

358-900TF


Mod.

358-905TF

Valves Mod. 368-900TF $C_v = .73$

Actuation Force at 87 psi = 1.35 lbf
 *Detent force can be adjusted by means of 5 spring-loaded screws on the side of handle interface



Mod.

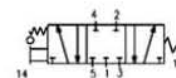
368-900TF

Valves Mod. 368-905TF $C_v = .73$

Actuation Force at 87 psi = 4.5 lbf
 *Detent force can be adjusted by means of 5 spring-loaded screws on the side of handle interface



Mod.

368-905TF


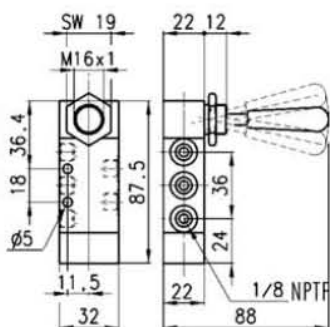

 $C_v = .73$

1 MANUAL VALVES

Valves Mod. 378-900TF
 $C_v = .73$

Actuation Force at 87 psi = 1.35 lbf

*Detent force can be adjusted by means of 5 spring-loaded screws on the side of handle interface

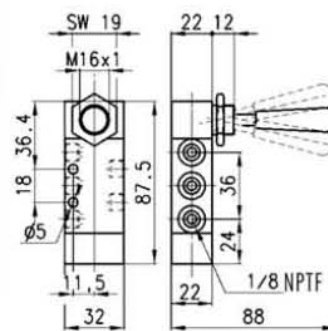


Mod.

378-900TF


Valves Mod. 378-905TF
 $C_v = .73$

Actuation Force at 87 psi = 4.5 lbf



Mod.

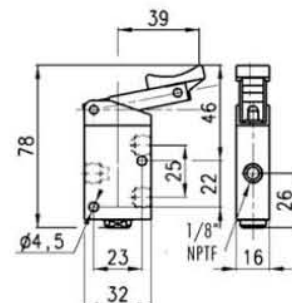
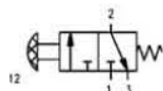
378-905TF




 $C_v = .52$
Valve Mod. 138-935TF
 $C_v = .52$

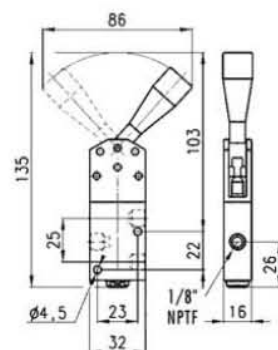
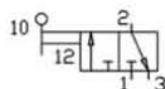
Actuating force at 6 bar = 38N (8.5 lbf)
 Operating pressure = 0 - 10 bar (0 - 145psi)
 Flow rate = 500 NI/min. (17.6 SCFM)

Mod.

138-935TF

Valve Mod. 138-900TF
 $C_v = .52$

Actuating force at 6 bar = 25N (5.6 lbf)
 Operating pressure = 0 - 10 bar (0-145 psi)
 Flow rate = 500 NI/min. (17.6 SCFM)

Mod.

138-900TF

Valve Mod. 158-900TF
 $C_v = .52$

Actuating force at 6 bar = 45N (10.1 lbf)
 Operating pressure = 0 - 10 bar (0-145 psi)
 Flow rate = 500 NI/min. (17.6 SCFM)

Mod.

158-900TF
