Series 1 and 4 1/4" Ported Manually Operated Valves

Cv = 1.3

3-way/2-position, 5-way/2-position and 5-way/3-position Ports 1/4" NPTF

The Series 1 manual valves (1/4", 3-way/2-position and 5-way/2-position) and the Series 4 manual valves (1/4", 3-way/2-position, 5-way/2-position and 5-way/3-position) are available with actuators designed to satisfy different needs. For Series 4, the 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 4 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 4, 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	1/4" 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 centistrokes)

PNEUMATIC DATA

Operating pressure	0 - 10 bar, (0 - 145 psi); (Down to -9 bar vacuum; 28" Hg with Series 4
Nominal pressure	6 bar, (87 psi)
Nominal flow (QN)	QN Series 1: 1/4"=1250 NL/min. (44.14 SCFM)
Nominal diameter	1/4"= 7.5 mm
	*Qn Series 4: 1/4"=1250 NL/min. (44.14 SCFM)
Cv Rating	Series 1: 1.3
	Series 4: 1.3

*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

Cv = 1.3

CODING OF MINIVALVES

154-900TF

Series
1 = poppet type
4 = spool type

FUNCTION (WAY/POSITION)
3 = 3/2 normally closed
5 = 5/2
6 = 5/3 center closed
7 = 5/3 center open exhausting

PORTS
4 = 1/4"

MODE OF OPERATION
895 = pushbutton, spring return, black
896 = pushbutton, spring return, green
897 = pushbutton, spring return, red
900 = lever, Detented
905 = lever, spring return
910 = knob, Detented
915 = knob, spring return
935 = thumb lever, spring return
975 = palm-switch, spring return, black
976 = palm-switch, spring return, green
977 = palm-switch, spring return, red
990 = toggle switch, Detented

PORTS
TF = NPTF

Manually operated valves


Mod. 134-935TF


Mod. 134-900TF


Mod. 154-900TF


Mod. 434-910TF
Mod. 434-915TF


Mod. 454-910TF
Mod. 454-915TF


Mod. 434-900TF
Mod. 434-905TF


Mod. 454-900TF
Mod. 454-905TF

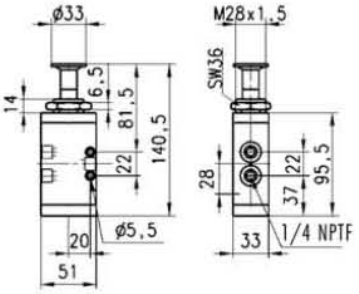

Mod. 464-900TF
Mod. 464-905TF

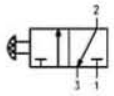
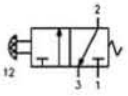

Mod. 474-900TF
Mod. 474-905TF

Cv = 1.3

Valves Mod. 434-910TF and 434-915TF — Cv = 1.3

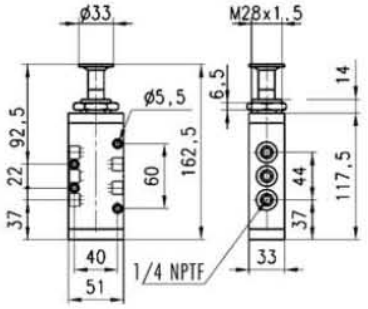
Mod. 434-910TF Actuation Force at 87 psi = 2.25 lbf
Mod. 434-915TF Actuation Force at 87 psi = 8.3 lbf



Mod.	
434-910TF	
434-915TF	

Valves Mod. 454-910TF and 454-915TF — Cv = 1.3

Mod. 454-910TF Actuation Force at 87 psi = 2.25 lbf
Mod. 454-915TF Actuation Force at 87 psi = 8.3 lbf



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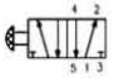
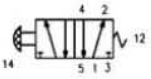
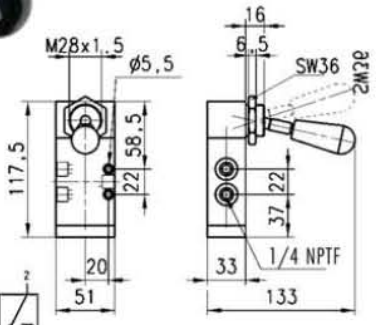
454-910TF	
454-915TF	

Valves Mod. 434-900TF and 434-905TF — Cv = 1.3

Mod. 434-900TF Actuation Force at 87 psi = 1.35 lbf
Mod. 434-905TF Actuation Force at 87 psi = 8.3 lbf
*Detent force can be adjusted by means of 5 spring-loaded screws on the side of handle interface



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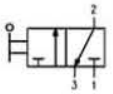
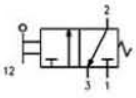
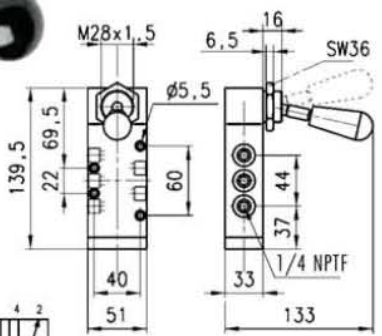
434-900TF	
434-905TF	

Valves Mod. 454-900TF and 454-905TF — Cv = 1.3

Mod. 454-900TF Actuation Force at 87 psi = 1.35 lbf
Mod. 454-905TF Actuation Force at 87 psi = 8.3 lbf
*Detent force can be adjusted by means of 5 spring-loaded screws on the side of handle interface



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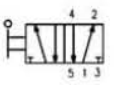
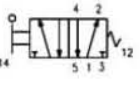
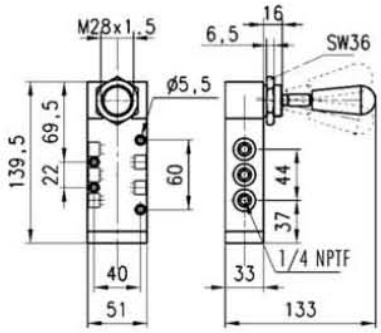
454-900TF	
454-905TF	

Cv = 1.3

Valves Mod. 464-900TF — Cv = 1.3

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



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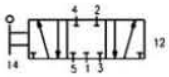
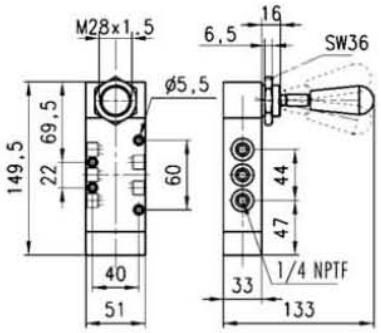
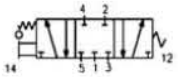
464-900TF	

Valves Mod. 464-905TF — Cv = 1.3

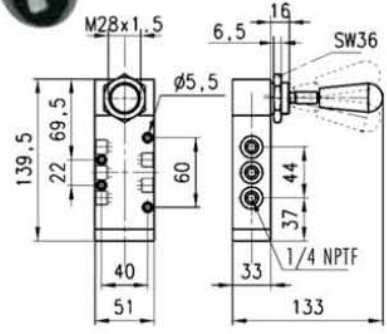
Actuation Force at 87 psi = 2.25 lbf

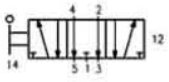


Mod.	
464-905TF	

Valves Mod. 474-900TF — Cv = 1.3

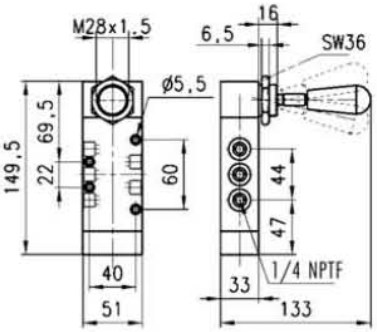
Actuation Force at 87 psi = 1.35 lbf
*Detent force can be adjusted by means of 5 spring-loaded screws on the side of handle interface



Mod.	
474-900TF	

Valves Mod. 474-905TF — Cv = 1.3

Actuation Force at 87 psi = 2.25 lbf



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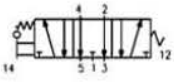
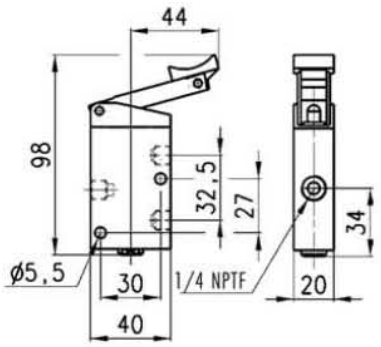
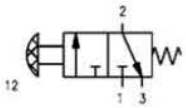
474-905TF	

Cv = 1.3

Valve Mod. 134-195TF — Cv = 1.3

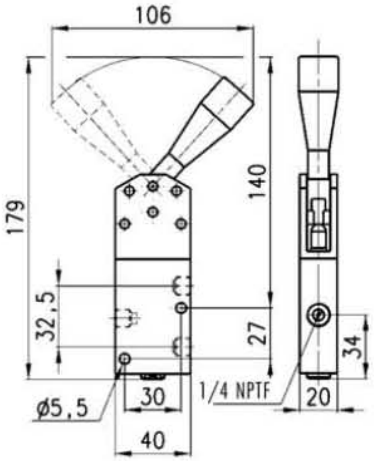
Actuating force at 6 bar = 40N (9 lbf)
Operating pressure = 0 - 10 bar (0-145 psi)
Flow rate = 1250 Nl/min. (44.1 SCFM)

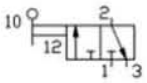


Mod.	
134-935TF	

Valve Mod. 134-900TF — Cv = 1.3

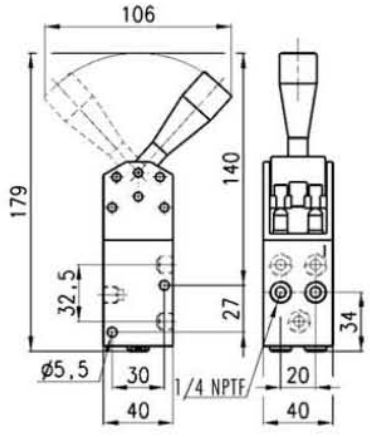
Actuating force at 6 bar = 30N (6.7 lbf)
Operating pressure = 0 - 10 bar (0 - 145 psi)
Flow rate = 1250 Nl/min. (44.1 SCFM)



Mod.	
134-900TF	

Valve Mod. 154-900TF — Cv = 1.3

Actuating force at 6 bar = 55N (12.3 lbf)
Operating pressure = 0 - 10 bar (0-145 psi)
Flow rate = 1250 Nl/min. (44.1 SCFM)



Mod.	
154-900TF