


 $C_v = .68 - 1.31$
2
MECHANICAL VALVES

Series 4

1/8" & 1/4" Mechanically Operated Sensor Valves

 $C_v = 0.68 - 1.31$

3-way/2-position and 5-way/2-position
Ports 1/8", 1/4" NPTF

In order to facilitate the use of limit switch valves in applications where very low actuating forces and high flowrates are required, Series 4 valves are equipped with new mechanical devices designed for this purpose. The 4 Series includes one or two minivalves depending on the function which the valve must perform.*

The mini valves reduce the actuation force required to operate the main valve.

The functions available are as follows:

- 5-way/2-position (monostable) - spring-return
- 5-way/2-position (bistable) - double-pilot detented

*The mini-valves utilize a poppet valve to pilot-pressure the main spool plunger.



GENERAL DATA

Construction	spool-type (servocontrolled); internal pilot-pressure spool plunger
Valve Function	3-way/2-position, 5-way/2-position
Materials	Anodized body, stainless steel spool, NBR seals
Ports	1/8", 1/4" NPTF
Operating Temperature	32° - 175°F (dry air necessary down to -4°F)

PNEUMATIC DATA

Operating pressure	2.5 - 8 bar (36 - 116 psi) for single-pilot models 2 - 8 bar (29 - 116 psi) for double-pilot models
Nominal Flow	Qn: 1/4" = 1250 NL/min. (44.1 SCFM) $C_v = 1.31$ 1/8" = 650 NL/min. (22.95 SCFM) $C_v = 0.68$



Cv = .68

CODING
2
MECHANICAL VALVES
4 3 8-015-194 TF
SERIES
4

FUNCTIONS (WAY/POSITION)

3 = 3/2 way normally closed
4 = 3/2 way normally open
5 = 5/2 way

PORTS
8 = 1/8"
4 = 1/4"

PILOT-FUNCTIONS
015 = pilot/spring return
011 = double-pilot

ACTUATION

194 = plunger sensor, spring return
294 = plunger sensor, bistable (double)
195 = lever/roller, spring return
295 = lever/roller, bistable (double)

PORTS
TF = NPTF ports

* Valves operate by internal pilot pressure against plunger when manual/mechanical poppet valves are actuated.

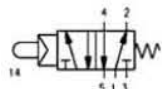
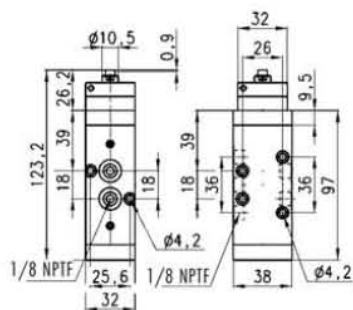
Valves Mod. 458-015-194TF

Cv = 0.68

Operating pressure = 2.5 - 8 bar (36 - 116 psi)

Flow rate = 650 NI/min. (22.95 SCFM)

Actuating force at 6 bar = 6 N (1.35 lbf)

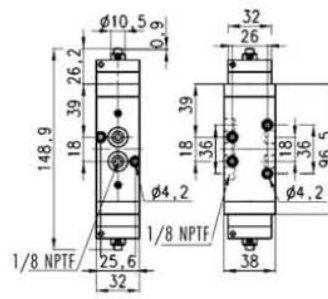

Valves Mod. 458-011-294TF

Cv = 0.68

Operating pressure = 2 - 8 bar (29 - 116 psi)

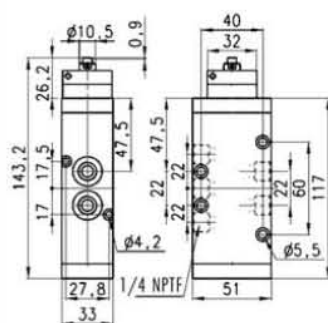
Flow rate = 650 NI/min. (22.95 SCFM)

Actuating force at 6 bar = 6 N (1.35 lbf)

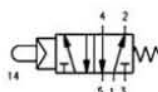



 $C_v = .68 - 1.31$
2
MECHANICAL VALVES
Valves Mod. 454-015-194TF
 $C_v = 1.31$

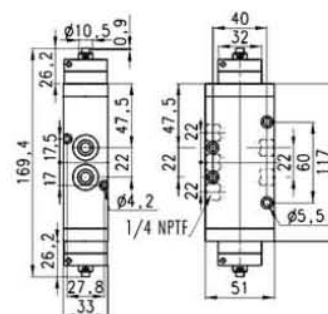
Operating pressure = 2.5 - 8 bar (36 - 116 psi)
 Flow rate = 1250 NI/min. (44.1 SCFM)
 Actuating force at 6 bar = 6 N (1.35 lbf)



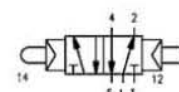
Mod.

454-015-194TF

Valves Mod. 454-011-294TF
 $C_v = 1.31$

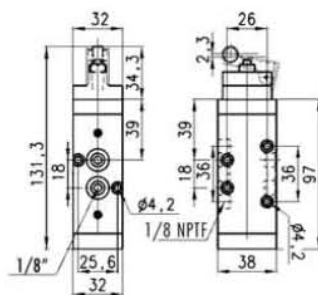
Operating pressure = 2 - 8 bar (29 - 116 psi)
 Flow rate = 1250 NI/min. (44.1 SCFM)
 Actuating force at 6 bar = 6 N (1.35 lbf)



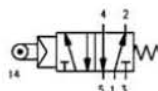
Mod.

454-011-294TF

Valves Mod. 458-015-195TF
 $C_v = 0.68$

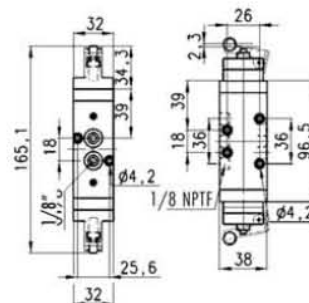
Operating pressure = 2.5 - 8 bar (36 - 116 psi)
 Flow rate = 650 NI/min. (22.95 SCFM)
 Actuating force at 6 bar = 4 N (.9 lbf)



Mod.

458-015-195TF

Valves Mod. 458-011-295TF
 $C_v = 0.68$

Operating pressure = 2 - 8 bar (29 - 116 psi)
 Flow rate = 650 NI/min. (22.95 SCFM)
 Actuating force at 6 bar = 4 N (.9 lbf)



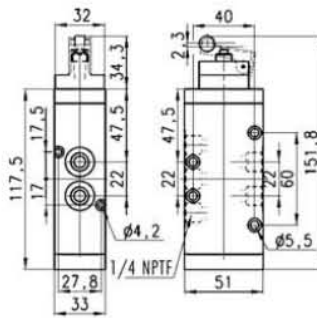
Mod.

458-011-295TF

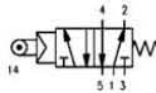


 $C_v = 1.31$
2
MECHANICAL VALVES
Valves Mod. 454-015-195TF
 $C_v = 1.31$

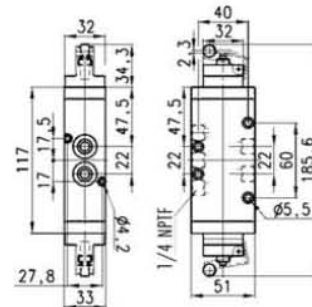
Operating pressure = 2.5 - 8 bar (36 - 116 psi)
 Flow rate = 1250 NI/min. (44.1 SCFM)
 Actuating force at 6 bar = 4 N (.9 lbf)



Mod.

454-015-195TF

Valves Mod. 454-011-295TF
 $C_v = 1.31$

Operating pressure = 2 - 8 bar (29 - 116 psi)
 Flow rate = 1250 NI/min. (44.1 SCFM)
 Actuating force at 6 bar = 4 N (.9 lbf)



Mod.

454-011-295TF
