HOSEGUARD®
SAFETY VALVES



HOSEGUARD®
SAFETY VALVES

SAFETY

Features and benefits

- Safe
- Reliable and tamperproof
- Maintenance free
- Easy to install
- Lightweight and compact
- Optimal airflow in normal open position
- Meet OSHA Regulation Standard 29CFR 1926.302 (Partial)
- Meet ISO Standard 4414-11 (5.4.5.11.1)***

Material

Aluminium
(Stainless steel 316 available upon request)

Specifications

Maximum Working Pressure: 261 PSI

Working Temperature:
1/4, 3/8 and 1/2: -20 to 80 °C
3/4 and 1: -20 to 120 °C

Applications

Compressed air distribution systems for medical, pharmaceutical, chemical, dental, food and beverage industries



When a fitting comes out from a pressurised hose or when a pressurised hose is ruptured, the hose blows compressed air in an uncontrolled way.

This causes the hose to whip and can result in:

- Injury
- Damage to pieces in production
- Dust being blown up from the floor
- Small debris being blown around

The **HOSEGUARD®** safety valve offers a simple and efficient protection in the event of a breakage in the compressed air system, a disconnection or a rupture of a pressurised air hose.

The value of the safety valve is factory preset and configured to allow a normal air consumption when using air tools.

Should the air consumption exceed the set value of the safety valve, the air supply is immediately shut off by the internal piston.

Once the breakage is repaired, a built-in bleed hole leaks a certain amount of airflow, which automatically resets the **HOSEGUARD®** safety valve.

See the video "HOSEGUARD: Anti-Hose Whip" on **TOPRING**.com



FACTS TO KNOW

OSHA standard No.1926.302(b)(7) states that: "All flexible hoses exceeding 1/2 inch inside diameter shall have a safety device at the source of supply or branch line to reduce pressure in case of hose failure." **TOPRING** anti-hose whip safety valves satisfy this standard.

***** ISO 4414-11 (5.4.5.11.1):**
"When failure of a hose assembly or plastic piping constitutes whiplash hazard, it shall be restrained or shielded by suitable means and/or an air fuse for compressed air shall be mounted."

MALE THREAD ALUMINIUM VALVES

Product No	Inlet (M) NPT	Outlet (F) NPT	Airflow (SCFM) *	Length mm
58.952	1/4	1/4	24	58
58.955	1/4	1/4	32	58
58.957	3/8	3/8	33	69
58.959	3/8	3/8	46	69
58.961	1/2	1/2	73	79
58.962	1/2	1/2	96	79
58.964	1/2	1/2	107	79

FEMALE THREAD ALUMINIUM VALVES

Product No	Inlet (F) NPT	Outlet (F) NPT	Airflow (SCFM) *	Length mm
58.967	3/4	3/4	127	76
58.969	3/4	3/4	161	76
58.972	1	1	163	100
58.974	1	1	236	100

STAINLESS STEEL VALVES

Available upon special requests

Product No	Inlet (F) NPT	Outlet (F) NPT	Airflow (SCFM) *	Length mm
58.452	1/4)	1/4	24	58
58.455	1/4	1/4	32	58
58.462	1/2	1/2	96	79
58.464	1/2	1/2	107	79

* Data for closing point (+/- 10 %) and other PSI available in the following pages

HOSEGUARD®
SAFETY VALVES

Information required to select the right HOSEGUARD®

- Flow and pressure level needed to operate the air tool
- Pressure supply level at the inlet of the **HOSEGUARD®** safety valve
- Inside diameter and length of the air hose from the **HOSEGUARD®** safety valve to the air tool
- By using both the available airflow value and **HOSEGUARD®** safety valve closing point charts (next pages), the correct **HOSEGUARD®** safety valve can be selected.
- Please be aware that using theoretical values to select a **HOSEGUARD®** safety valve is not advised.

CAUTION
INSTALLATION GUIDELINES

It is essential that the compressed air used is clean and dry.

The inside diameter of the mounted air hose or pipe **installed after** the **HOSEGUARD®** safety valve **must be equal or superior to the inside diameter** of the **HOSEGUARD®** safety valve. Air hoses and pipes which are too small could impede successful closing of the **HOSEGUARD®** safety valve.

Long hoses or pneumatic tubes cause a flow restriction that could prevent the proper operation of HOSEGUARD® safety valves. As a general rule hoses with an internal diameter of 1/4 in shouldn't be over 20 feet long, 3/8 in are limited to 50 feet and 1/2 In or larger should be within a 100 feet maximum length. For a longer hose length, please contact us via solutions@TOPRING.COM

The rules above also apply to any mounted quick couplers and plugs, nipples, as these could negate the closing function of the **HOSEGUARD®** safety valve.

The inside diameter of the air hose or pipe **installed before** the **HOSEGUARD®** safety valve **must be equal or superior** to the inside diameter of the **HOSEGUARD®** safety valve.

If regulators or other components are mounted before the **HOSEGUARD®** safety valve, these components must have a higher flow than the **HOSEGUARD®** safety valve selected.

Operation of the **HOSEGUARD®** safety valve should be thoroughly tested before first use and on a regular basis thereafter. To ensure the safe operation of the safety device simply simulate a hose breakage by replacing the tool with a ball valve. See the instruction manual for more information.

Proper HOSEGUARD® safety valve installation

The **HOSEGUARD®** safety valve must be mounted between source of air supply and the flexible air hose



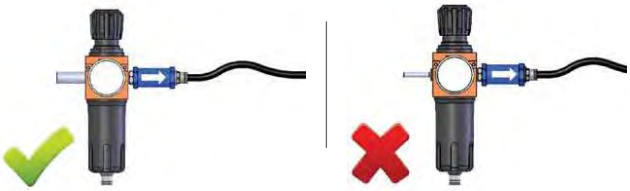
The **HOSEGUARD®** safety valve must be mounted at the end of a rigid feeding line



It is essential to ensure that the air is flowing in the correct direction (as per the arrows marked on the **HOSEGUARD®** safety valve), otherwise the safety valve will not be able to close successfully



The inside diameter of the mounted air hose or pipe installed before the **HOSEGUARD®** safety valve, must be equal or superior than the inside diameter of the **HOSEGUARD®** safety valve



CAUTION

The air system should be operated only after the **HOSEGUARD®** safety valve has been rigorously tested and secured.

The operation parameters established during the initial **HOSEGUARD®** selection must be maintained to ensure its safety and reliability. Following any changes, the parameters must be validated again to ensure conformity.

HOSEGUARD®
SAFETY VALVES



Flow measurement according to DIN EN 60534 / Airflow at closing point (+ / - 10 %)

LEGEND
P1: Inlet pressure
DP: Pressure drop
V: Closing point (SCFM)

1/4 · Standard Flow

Product No: 58.952 / 58.452

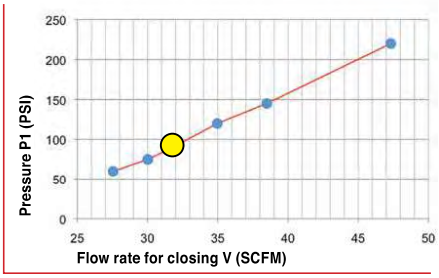
P1	Dp	V
PSI	PSI	SCFM
220	5.8	36
145	5.8	29
120	5.8	27
90	5.8	24
75	5.8	22
60	5.8	20



1/4 · High Flow

Product No: 58.955 / 58.455

P1	Dp	V
PSI	PSI	SCFM
220	13.1	47
145	13.1	38
120	13.1	35
90	13.1	32
75	14.5	30
60	5.8	20



3/8 · Standard Flow

Product No: 58.957

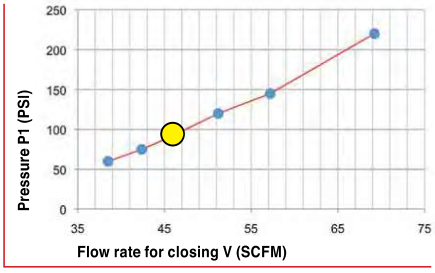
P1	Dp	V
PSI	PSI	SCFM
220	2.9	50
145	3.0	42
120	2.9	38
90	2.8	33
75	2.9	31
60	2.8	28



3/8 · High Flow

Product No: 58.959

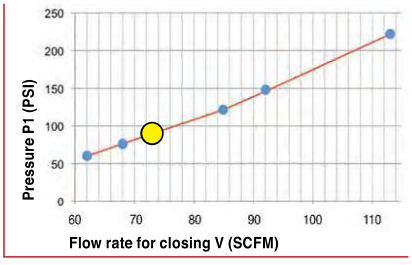
P1	Dp	V
PSI	PSI	SCFM
220	3.3	69
145	3.3	57
120	3.2	51
90	3.2	46
75	3.3	42
60	3.3	38



1/2 · Low Flow

Product No: 58.961

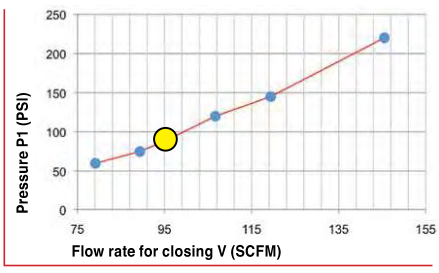
P1	Dp	V
PSI	PSI	SCFM
220	0.3	113
145	0.3	92
120	0.3	83
90	0.3	73
75	0.3	68
60	0.3	62



1/2 · Standard Flow

Product No: 58.962 / 58.462

P1	Dp	V
PSI	PSI	SCFM
220	5.4	145
145	5.4	119
120	5.2	107
90	5.1	96
75	5.1	89
60	5.1	79



HOSEGUARD®
SAFETY VALVES

Flow measurement according to DIN EN 60534 / Airflow at closing point (+ / - 10 %)

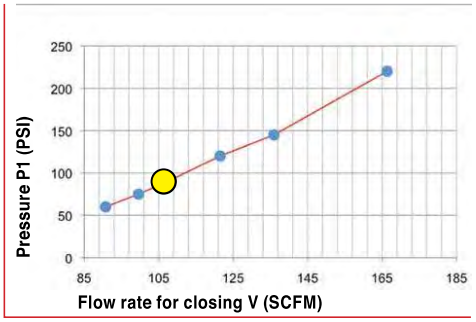
LEGEND
P1: Inlet pressure
DP: Pressure drop
V: Closing point (SCFM)



1/2 · High Flow

Product No: 58.964 / 58.464

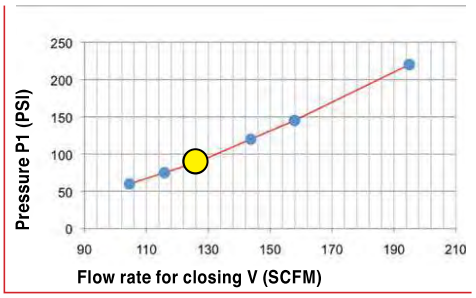
P1	Dp	V
PSI	PSI	SCFM
220	6.1	166
145	6.1	136
120	5.9	121
90	5.8	107
75	5.9	100
60	5.9	91



3/4 · Standard Flow

Product No: 58.967

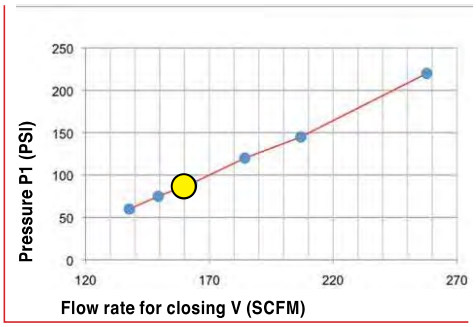
P1	Dp	V
PSI	PSI	SCFM
220	3.5	195
145	3.6	158
120	3.5	144
90	3.6	127
75	3.6	116
60	3.6	105



3/4 · High Flow

Product No: 58.969

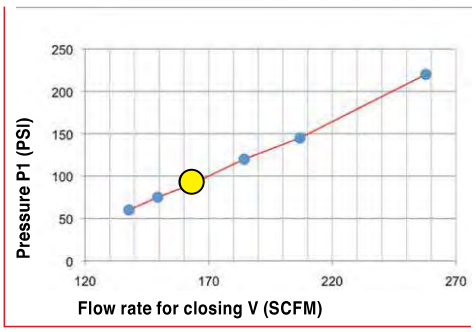
P1	Dp	V
PSI	PSI	SCFM
220	4.2	251
145	4.4	205
120	4.2	185
90	4.5	161
75	4.5	149
60	4.5	135



1 · Standard Flow

Product No: 58.972

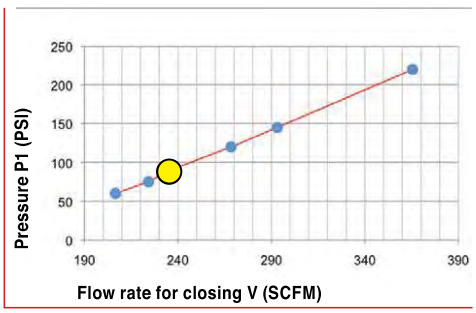
P1	Dp	V
PSI	PSI	SCFM
220	2.9	258
145	3.0	207
120	3.2	184
90	3.0	163
75	2.9	149
60	2.9	138



1 · High Flow

Product No: 58.974

P1	Dp	V
PSI	PSI	SCFM
220	3.9	366
145	3.9	293
120	3.9	268
90	3.9	236
75	3.9	224
60	3.8	207



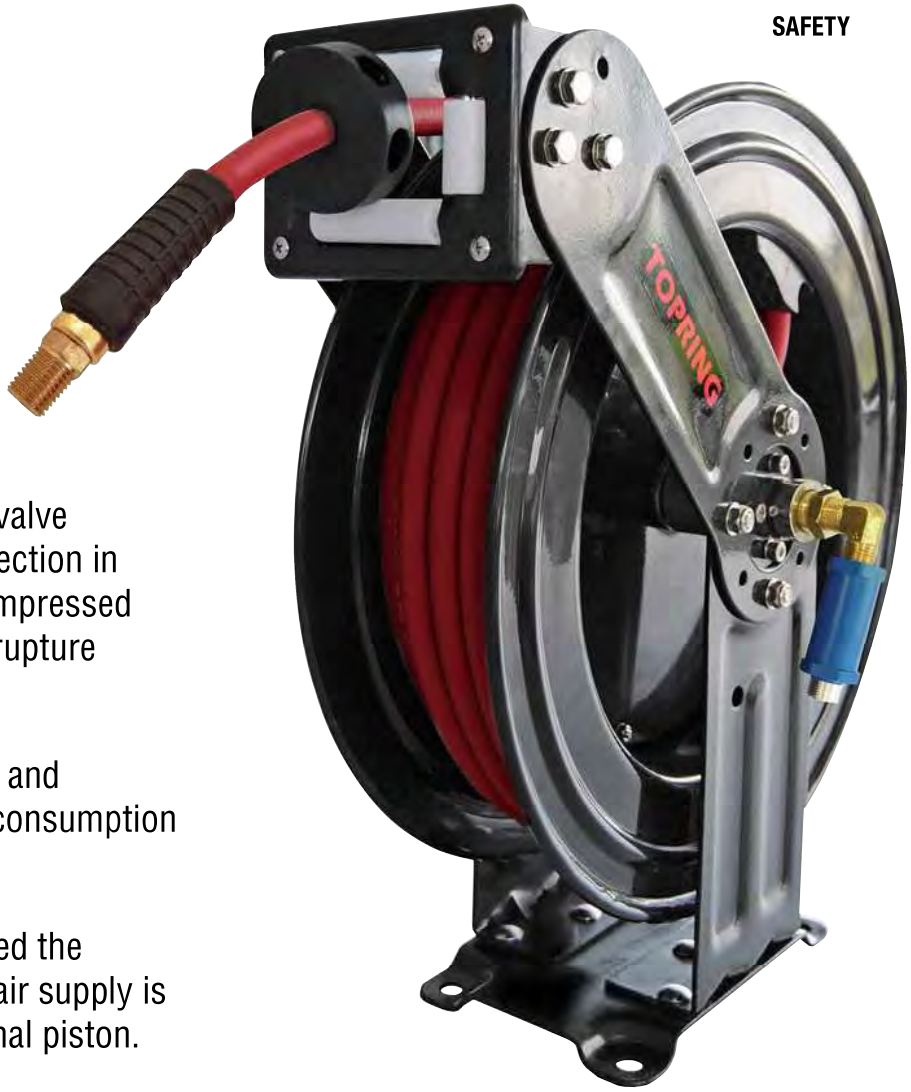
TopReel HD WITH THE HOSEGUARD® SAFETY VALVE

A simple and efficient protection* for users!

OSHA

SAFETY





The **HOSEGUARD®** safety valve offers a simple and efficient protection in the event of a breakage in the compressed air system, a disconnection or a rupture of a pressurised air hose.

The safety valve is factory preset and configured to allow a normal air consumption when using air tools.

Should the air consumption exceed the set value of the safety valve, the air supply is immediately shut off by the internal piston.

Once the breakage is repaired, a built-in bleed hole leaks a certain amount of airflow, which automatically resets the **HOSEGUARD®** safety valve.

TopReel HD hose reels with the HOSEGUARD safety valve are available with 3/8 or 1/2 I.D. rubber hose – 33 or 50 ft

For more details on TopReel HD hose reels, see Series 79.



See the video on **TOPRING**.com

* See “FACTS TO KNOW” at the beginning of this section for OSHA Standard No 1926.302(b)(7)