

# HoseGuard Air Flow Closing Rates



All the following measurement values (flow for closing function) apply for a HoseGuard® (hose breakage safety device) charged with the appropriate pressure P1 and with a free Pa outlet.

If a component is fitted after the HoseGuard® which reduces the flow performance (e.g. linkage, screw fitting, hose etc.), it is possible that the required flow for the defined closing point is no longer attained and that the HoseGuard® will not close. In this case the application must be appropriately tested. It is possible that another component may have to be selected after the HoseGuard®, or a smaller HoseGuard®, depending on the test result.

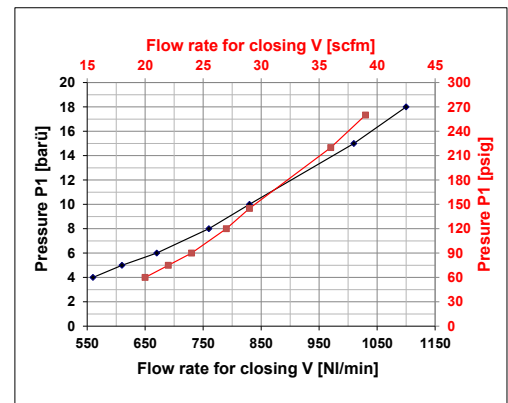
## HoseGuard® 1/4''

Flow measurement according to DIN EN 60534

Air flow rate for closing (+ - 10%)

p1	p1	Dp	Dp	T	RF	RF	V	V
(barü)	(psig)	(bar)	(psig)	(K)	(NI/min)	(scfm)	(NI/min)	(scfm)
18	260	0.40	5.8	284	180	6.5	1100	39
15	220	0.40	5.8	283	160	5.5	1010	36
10	145	0.40	5.8	283	110	4.0	830	29
8	120	0.40	5.8	283	95	3.5	760	27
6	90	0.40	5.8	283	75	2.6	670	24
5	75	0.40	5.8	283	65	2.3	610	22
4	60	0.40	5.8	283	55	2.0	560	20

p1: Inlet pressure | Dp: Pressure difference | T: Temperature | RF: Reset Flow | V: Flow rate for closing



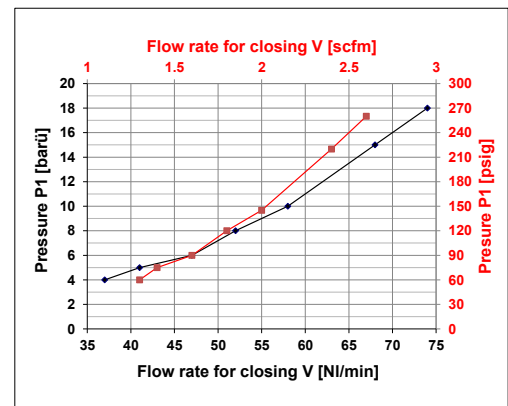
## HoseGuard® 1/4'' Low Flow

Flow measurement according to DIN EN 60534

Air flow rate for closing (+ - 10%)

p1	p1	Dp	Dp	T	RF	RF	V	V
(barü)	(psig)	(bar)	(psig)	(K)	(NI/min)	(scfm)	(NI/min)	(scfm)
18	260	0.07	1.0	283	37	1.30	74	2.6
15	220	0.07	1.0	282	29	1.00	68	2.4
10	145	0.07	1.0	284	21	0.75	58	2.0
8	120	0.06	0.8	283	18	0.65	52	1.8
6	90	0.07	1.0	286	15	0.52	47	1.6
5	75	0.06	0.8	286	14	0.49	41	1.4
4	60	0.06	0.8	286	12	0.42	37	1.3

p1: Inlet pressure | Dp: Pressure difference | T: Temperature | RF: Reset Flow | V: Flow rate for closing



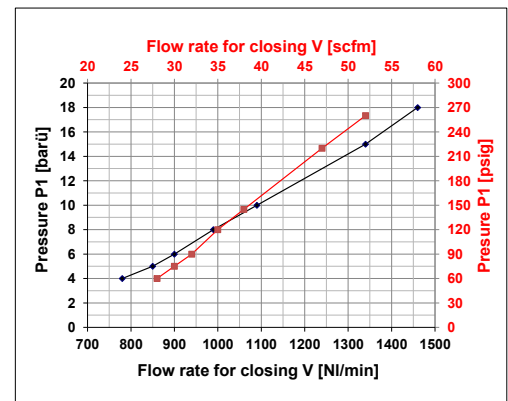
## HoseGuard® 1/4'' High Flow

Flow measurement according to DIN EN 60534

Air flow rate for closing (+ - 10%)

p1	p1	Dp	Dp	T	RF	RF	V	V
(barü)	(psig)	(bar)	(psig)	(K)	(NI/min)	(scfm)	(NI/min)	(scfm)
18	260	0.90	13.0	287	180	6.5	1460	52
15	220	0.90	13.0	286	160	5.5	1340	47
10	145	0.90	13.0	287	110	4.0	1090	38
8	120	0.90	13.0	284	95	3.5	990	35
6	90	0.90	13.0	282	75	2.6	900	32
5	75	1.00	14.5	282	65	2.3	850	30
4	60	1.00	14.5	282	55	2.0	780	28

p1: Inlet pressure | Dp: Pressure difference | T: Temperature | RF: Reset Flow | V: Flow rate for closing



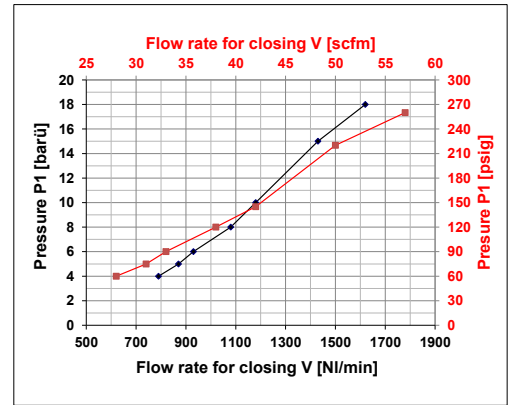
## HoseGuard® 3/8"

Flow measurement according to DIN EN 60534

Air flow rate for closing (+ - 10%)

p1	p1	Dp	Dp	T	RF	RF	V	V
(barü)	(psig)	(bar)	(psig)	(K)	(NI/min)	(scfm)	(NI/min)	(scfm)
18	260	0.20	2.9	282	180	6.5	1620	57
15	220	0.20	2.9	283	160	5.5	1430	50
10	145	0.21	3.0	283	110	4.0	1180	42
8	120	0.20	2.9	284	95	3.5	1080	38
6	90	0.19	2.7	285	75	2.6	930	33
5	75	0.20	2.9	284	65	2.3	870	31
4	60	0.19	2.7	284	55	2.0	790	28

p1: Inlet pressure | Dp: Pressure difference | T: Temperature | RF: Reset Flow | V: Flow rate for closing



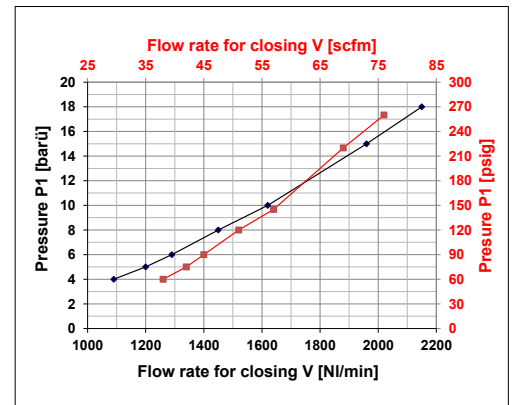
## HoseGuard® 3/8" High Flow

Flow measurement according to DIN EN 60534

Air flow rate for closing (+ - 10%)

p1	p1	Dp	Dp	T	RF	RF	V	V
[barü]	(psig)	[bar]	(psig)	[K]	(NI/min)	(scfm)	[NI/min]	(scfm)
18	260	0.23	3.3	282	180	6.5	2150	76
15	220	0.23	3.3	282	160	5.5	1960	69
10	145	0.23	3.3	283	110	4.0	1620	57
8	120	0.22	3.2	284	95	3.5	1450	51
6	90	0.22	3.2	286	75	2.6	1290	45
5	75	0.23	3.3	285	65	2.3	1200	42
4	60	0.23	3.3	283	55	2.0	1090	38

p1: Inlet pressure | Dp: Pressure difference | T: Temperature | RF: Reset Flow | V: Flow rate for closing



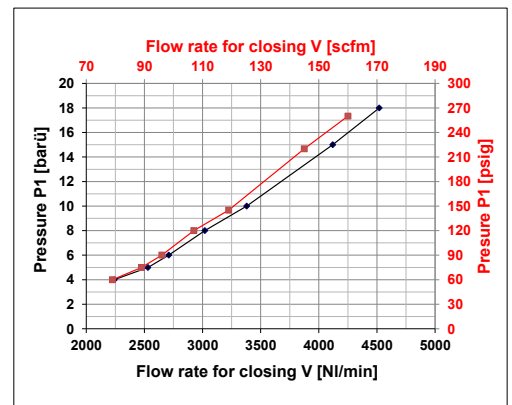
## HoseGuard® 1/2"

Flow measurement according to DIN EN 60534

Air flow rate for closing (+ - 10%)

p1	p1	Dp	Dp	T	RF	RF	V	V
(barü)	(psig)	(bar)	(psig)	(K)	(NI/min)	(scfm)	(NI/min)	(scfm)
18	260	0.36	5.2	282	180	6.5	4520	160
15	220	0.37	5.4	282	160	5.5	4120	145
10	145	0.37	5.4	283	110	4.0	3380	119
8	120	0.36	5.2	284	95	3.5	3020	107
6	90	0.35	5.0	283	75	2.6	2710	96
5	75	0.35	5.0	282	65	2.3	2530	89
4	60	0.35	5.0	281	55	2.0	2240	79

p1: Inlet pressure | Dp: Pressure difference | T: Temperature | RF: Reset Flow | V: Flow rate for closing



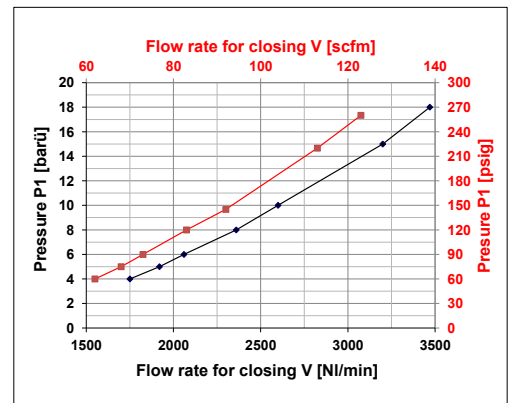
## HoseGuard® 1/2" Low Flow

Flow measurement according to DIN EN 60534

Air flow rate for closing (+ - 10%)

p1	p1	Dp	Dp	T	RF	RF	V	V
(barü)	(psig)	(bar)	(psig)	(K)	(NI/min)	(scfm)	(NI/min)	(scfm)
18	260	0.24	3.5	276	180	6.5	3470	123
15	220	0.24	3.5	275	160	5.5	3200	113
10	145	0.25	3.6	275	110	4.0	2600	92
8	120	0.26	3.8	275	95	3.5	2360	83
6	90	0.26	3.8	276	75	2.6	2060	73
5	75	0.26	3.8	281	65	2.3	1920	68
4	60	0.26	3.8	280	55	2.0	1750	62

p1: Inlet pressure | Dp: Pressure difference | T: Temperature | RF: Reset Flow | V: Flow rate for closing

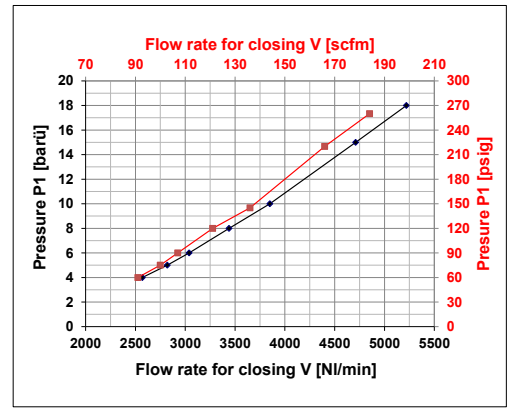


## HoseGuard® 1/2" High Flow

Flow measurement according to DIN EN 60534  
Air flow rate for closing (+ - 10%)

p1	p1	Dp	Dp	T	RF	RF	V	V
(barü)	(psig)	(bar)	(psig)	(K)	(NI/min)	(scfm)	(NI/min)	(scfm)
18	260	0.41	5.9	282	180	6.5	5220	184
15	220	0.42	6.1	282	160	5.5	4710	166
10	145	0.42	6.1	283	110	4.0	3850	136
8	120	0.41	5.9	285	95	3.5	3440	121
6	90	0.40	5.8	284	75	2.6	3040	107
5	75	0.41	5.9	283	65	2.3	2820	100
4	60	0.41	5.9	282	55	2.0	2570	91

p1: Inlet pressure | Dp: Pressure difference | T: Temperature | RF: Reset Flow | V: Flow rate for closing

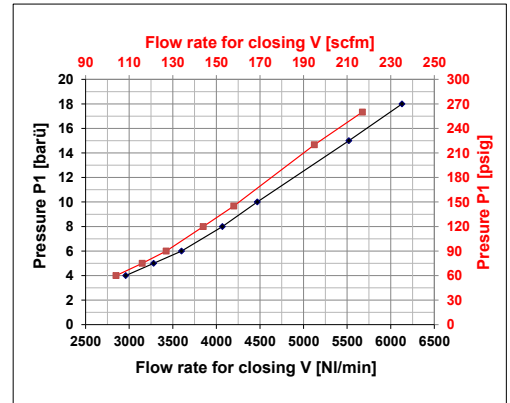


## HoseGuard® 3/4"

Flow measurement according to DIN EN 60534  
Air flow rate for closing (+ - 10%)

p1	p1	Dp	Dp	T	RF	RF	V	V
(barü)	(psig)	(bar)	(psig)	(K)	(NI/min)	(scfm)	(NI/min)	(scfm)
18	260	0.24	3.5	282	690	24.5	6130	217
15	220	0.24	3.5	281	580	20.5	5520	195
10	145	0.25	3.6	283	400	14.0	4470	158
8	120	0.24	3.5	281	330	11.5	4070	144
6	90	0.25	3.5	283	260	9.0	3600	127
5	75	0.25	3.5	287	220	8.0	3280	116
4	60	0.25	3.5	285	180	6.5	2960	104

p1: Inlet pressure | Dp: Pressure difference | T: Temperature | RF: Reset Flow | V: Flow rate for closing

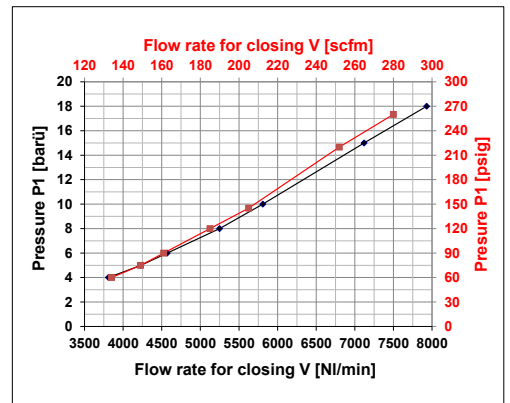


## HoseGuard® 3/4" High Flow

Flow measurement according to DIN EN 60534  
Air flow rate for closing (+ - 10%)

p1	p1	Dp	Dp	T	RF	RF	V	V
(barü)	(psig)	(bar)	(psig)	(K)	(NI/min)	(scfm)	(NI/min)	(scfm)
18	260	0.29	4.2	282	2380	84	7930	280
15	220	0.29	4.2	282	2000	71	7120	252
10	145	0.30	4.3	282	1380	49	5810	205
8	120	0.29	4.2	281	1120	40	5250	185
6	90	0.31	4.5	283	880	31	4570	161
5	75	0.31	4.5	290	750	26.5	4230	149
4	60	0.31	4.5	285	630	22.5	3810	134

p1: Inlet pressure | Dp: Pressure difference | T: Temperature | RF: Reset Flow | V: Flow rate for closing

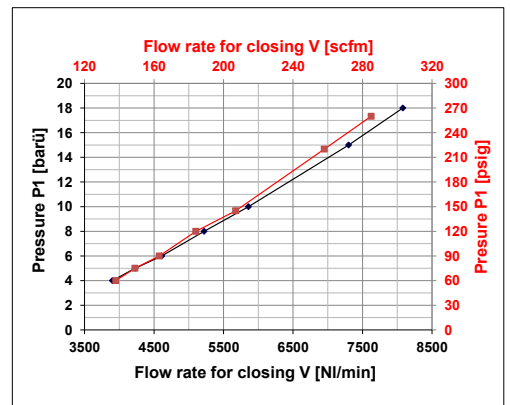


## HoseGuard® 1"

Flow measurement according to DIN EN 60534  
Air flow rate for closing (+ - 10%)

p1	p1	Dp	Dp	T	RF	RF	V	V
(barü)	(psig)	(bar)	(psig)	(K)	(NI/min)	(scfm)	(NI/min)	(scfm)
18	260	0.21	3.0	282	1440	51	8080	285
15	220	0.20	2.9	283	1200	43	7300	258
10	145	0.21	3.0	283	840	29.5	5860	207
8	120	0.22	3.2	284	690	24.5	5220	184
6	90	0.21	3.0	283	530	18.5	4610	163
5	75	0.20	2.9	288	460	16.5	4230	149
4	60	0.20	2.9	287	380	13.5	3900	138

p1: Inlet pressure | Dp: Pressure difference | T: Temperature | RF: Reset Flow | V: Flow rate for closing



**HoseGuard® 1" High Flow**  
**Flow measurement according to DIN EN 60534**  
**Air flow rate for closing (+ - 10%)**

p1	p1	Dp	Dp	T	RF	RF	V	V
(barü)	(psig)	(bar)	(psig)	(K)	(NI/min)	(scfm)	(NI/min)	(scfm)
18	260	0.27	3.9	282	1440	51	11820	417
15	225	0.27	3.9	281	1200	43	10350	366
10	150	0.27	3.9	283	840	29.5	8300	293
8	120	0.27	3.9	284	690	24.5	7600	268
6	90	0.27	3.9	284	530	18.5	6680	236
5	75	0.27	3.9	286	460	16.5	6350	224
4	60	0.26	3.8	285	380	13.5	5850	207

p1: Inlet pressure | Dp: Pressure difference | T: Temperature | RF: Reset Flow | V: Flow rate for closing

