

Friastop EFV Couplings

EFV's are small mechanical valves designed to shut off gas flow in a line if the flow exceeds a pre-determined limit. This means that if a line is accidentally cut or damaged the EFV will close and prevent an uncontrolled emission of fuel gas into the environment. The design is equipped with a bypass flow feature that allows the valve to reset once the line pressure on the downstream side of the valve equalizes. As a result, EFV's are considered a vital safety component of any gas distribution system, and are now required for virtually all gas service installations in the United States.

Friastop EF Couplings incorporate high quality Sentry GS EFV's made by Mertik-Maxitrol, one of the leading suppliers of EFV's in Europe. Gas Sentry EFV's are precisely adjusted at the factory, and can be applied universally for pressures as low as 2 psi and up to 125 psi.

The Sentry GS EFV design is largely resistant to most potential system contaminants and has been applied in many thousands of different installations over the last 20 years.

Nominal and Trip Flows (at 10 psi)

Nominal Size	Part Number	Integrated EFV Type	Nominal Flow @ 10 psi (ft ³ /hr)	Min Trip Flow @ 10 psi (ft ³ /hr)
3/4" IPS	128237	GS20	677	779
1" CTS	128238	GS20	677	779
1" IPS	128239	GS25	1,100	1,299
1-1/4" IPS	128241	GS32	1,662	2,003
1" CTS x 1/2" CTS	128240	GS15	474	571
2" IPS	128257	GS50	4,794	5,554

FRIATEC Safety Fittings can be fused to all PE pipes SDR Range 11 through 17.6. Allow electrofusion joints to cool prior to handling, pressurizing or tapping.

Features & Benefits:

- Wide range of operating pressures from 2 psi to 125 psi.
- Four different trip flow values from 595 to 2086 SCFH @ 10 psig.
- Low trip flow tolerance: ±4%
- Maximum protected downstream length of distribution line
- Available with bypass flow for line reinstatement
- Metallic materials, robust design, NBR sealing material
- 100% testing of the subassembly (coupling with EFV installed) on proper installation, function, bypass if any and leak tightness of the EFV in the coupler
- Available sizes from 3/4" IPS to 1- 1/4" IPS, as well as 1" CTS
- 1" x 1/2" CTS Friastop reducer available



Contact us

Visit our website: ipexna.com

Toll free U.S.: (800) 463-9572

Frialen® is manufactured by FRIATEC AG and is distributed in the United States by IPEX USA LLC. Frialen® is a trademark of FRIATEC AG.

3/4" IPS and 1" CTS Friatec Couplings incorporating GS20 EFVs

Line Pressure (psi)	Nominal Flow Rate (ft ³ /h)	Minimum Trip Flow Rate (ft ³ /h)	Maximum Protected Length 3/4" IPS SDR 11	Maximum Protected Length 1" CTS SDR 11.5 (ft)
2	556	641	350	497
5	604	696	927	1316
10	677	779	1806	2565
20	802	924	3432	4873
40	1007	1160	6555	9307
60	1177	1355	9694	13764
80	1325	1526	12892	18306
100	1458	1680	16155	22938
125	1610	1854	20318	28849

1" IPS Friatec Couplings Incorporating 6S25 EFVs

Line Pressure (psi)	Nominal Flow Rate (ft ³ /h)	Minimum Trip Flow Rate (ft ³ /h)	Maximum Protected Length 1" CTS SDR 11 (ft)
2	927	1068	433
5	1007	1161	1115
10	1128	1299	2155
20	1337	1540	4076
40	1679	1933	7768
60	1962	2260	11478
80	2209	2544	15259
100	2430	2800	19115
125	2683	3090	24035

1-1/4" IPS Friatec Couplings Incorporating GS32 EFVs

Line Pressure (psi)	Nominal Flow Rate (ft ³ /h)	Minimum Trip Flow Rate (ft ³ /h)	Maximum Protected Length 1-1/4" IPS SDR 11 (ft)
2	1367	1647	634
5	1484	1789	1612
10	1662	2003	3101
20	1970	2374	5854
40	2441	2981	11142
60	2890	3483	16457
80	3255	3922	21872
100	3582	4316	27395
125	3954	4764	34442

1" CTS x 1/2" CTS Friatec Reducing Couplings Incorporating GS15 EFVs

Line Pressure (psi)	Nominal Flow Rate (ft ³ /h)	Minimum Trip Flow Rate (ft ³ /h)	Maximum Protected Length 1/2" CTS SDR 7 (ft)
2	408	470	23
5	443	510	61
10	496	571	119
20	588	677	225
50	831	924	533
100	1069	1231	1060
125	1080	1358	1333

2" IPS Friatec Couplings Incorporating GSSO EFVs

Line Pressure (psi)	Nominal Flow Rate (ft ³ /h)	Minimum Trip Flow Rate (ft ³ /h)	Maximum Protected Length (ft)
2	3941	4567	576
5	4281	4960	1502
10	4794	5554	2913
20	5862	6583	5520
40	7135	8266	10529
60	8338	9660	15564
80	9389	10876	20814
100	10326	11970	25927
125	11401	13210	32604