




















BUTT FUSION FITTINGS		PROLINE	ULTRA PROLINE	PURAD	PROVENT
	Reducing Tees	3x2 – 10x6: Pro 150	Fabricated in all sizes	Available in all sizes; molded, fabricated, and machined	Fabricated in all sizes
	Reducers (Extended Leg and Concentric Reducer shown)	Extended Leg: available in 8x6 and 3/4 x 1/2 Pro 150 Concentric Reducer: 24x18 to 4x2 Pro 45 Eccentric: 8x6 to 3/4 x 1/2 Pro 150	Available in all sizes; multiple configurations	Available in all sizes; multiple configurations	Reducers available in all sizes; Reducing Lateral: available up to 20"; Lateral: 4" – 24" molded and/or segmented
	End Caps (Molded end shown)	1/2" – 20": Pro 150 4" – 20": Pro 45	1" – 4" machined	1/2" – 4" molded 6" – 12" machined	4" – 54" ANSI
	Male Threads	1/2" – 2": Pro 150	1" – 2" machined	1/2" – 2" molded	Use Pro 150 as required.
	Female Threads	1/2" – 2": Pro 150	1" – 2" machined	1/2" – 2" molded	Use Pro 150 as required.
	Unions	1/2" – 2": Pro 150	None	1/2" – 2" molded	Does not apply.
	Electrofusion Couplings	1/2" – 9": Pro 150	None	1/2" – 2" HPF	Does not apply.

SPECIALTY COMPONENTS		(Available for Proline and Purad. For UltraProline and Provent consult factory.)			
					
T-Valves	Instrumentation Fittings	Probe Adapters	Restraint Fittings	Sanitary Ends	Pipe-to-Flare Transition Fittings

PROLINE	ULTRA PROLINE	PURAD	PROVENT	BUTT FUSION FITTINGS	
1/2" – 20": Pro 150 4" – 20": Pro 45 Segmented available in larger sizes	1" – 4"	1/2" – 12"	4" – 54" molded and/or segmented 60° Elbow: 4" – 54": segmented	90° Elbows	
1/2" – 12": Pro 150 4" – 12": Pro 45 Segmented available in larger sizes	1" – 2" molded	1/2" – 6" molded 8" – 12" segmented	4" – 54" molded and/or segmented 30° Elbow: 4" – 54": segmented	45° Elbows	
1/2" – 12" molded	None	1/2" – 2" molded	Does not apply	Extended Leg 90° Elbows	
1/2" – 20": Pro 150 4" – 20": Pro 45	1" – 4" molded	1/2" – 12" molded	4" – 54" molded and/or segmented	Tees	
1/2" – 1": Pro 150 Available to 12" Molded on request	None	1/2" – 1" molded	Does not apply	Extended Leg Tees	
Stub Ends 1/2" – 20": Pro 150 4" – 24": Pro 45 Backing Rings 1/2" – 12": PPG 2" – 24": Ductile	Stub Ends 1" – 4" molded Backing Rings 1" – 4": PPG	Stub Ends 1/2" – 12" molded Backing Rings 1/2" – 12": PPG 2" – 24": Ductile Iron	Stub Ends 4" – 54" ANSI Backing Rings 4" – 12": PPG 4" – 24": Ductile Iron <i>Also available as a Slip Flange (PS 1569)</i>	Stub Ends and Backing Rings	 <small>(Stub End shown without Backing Ring)</small>

PROLINE (PP)	ULTRA PROLINE (ECTFE)	PURAD (PVDF)	PROVENT (PP)	SPECIFICATIONS
Pro 150: SDR 11 150 psi rated at 70°F Pro 45: SDR 33 45 psi rated at 70°F Pro 90: SDR 17.3 90 psi rated at 70°F	SDR 21 See pressure rating tables in the <i>Asahi/America Design Guide</i>	1/2" – 10": SDR 21 230 psi rated at 70°F 3" – 12": SDR 33 150 psi rated at 70°F	Pro 45: SDR 33 45 psi rated at 70° F Pro 30: SDR 41 30 psi rated at 70° F Vent Grade: 16" – 54"	Standard Ratings
Pro 150: 1/2" – 20" Pro 45: 4" – 48"	1/2" – 4" Larger upon request	PVDF 230: 1/2"–2 1/2" Standard 3" – 10" Optional PVDF 150: 4" – 12" Larger upon request	SDR 33: 4" – 48" SDR 41: 4" – 54" Vent: 16" – 54"	Pipe Dimensions
Butt Fusion: 1/2" – 48" Socket Fusion: 1/2" – 4" Electrofusion: 1/2"–9" IR Fusion: 1/2" – 10"	Butt Fusion: 1/2" – 4" IR Fusion: 1/2" – 4"	Butt Fusion: 1/2" – 12" Socket Fusion: 1/2" – 4" HPF: 1/2" – 2" IR Fusion: 1/2" – 10"	Butt Fusion Hot Gas and Extrusion Welding	Joining Techniques

SOCKET FITTINGS	PROLINE	PURAD*
90° Elbows	Pro 150: 1/2" – 4"	PVDF 230: 1/2"–4"
45° Elbows	Pro 150: 1/2" – 4"	PVDF 230: 1/2"–4"
Tees	Pro 150: 1/2" – 4"	PVDF 230: 1/2"–4"
Stub Ends	Pro 150: 1/2" – 4"	PVDF 230: 1/2"–4"
Reducers	Pro 150: 1/2" – 4"	PVDF 230: 1/2"–4"
Reducing Tees	Pro 150: 1/2" – 2"	Does not apply

SOCKET FITTINGS	PROLINE	PURAD*
Unions	Pro 150: 1/2" – 2"	PVDF 150: 1/2"–2"
Couplings	Pro 150: 1/2" – 4"	PVDF 230: 1/2"–4"
Female Adapters	Pro 150: 1/2" – 2"	PVDF 230: 1/2"–2"
Caps	Pro 150: 1/2" – 4"	PVDF 230: 1/2"–4"
Backing Rings	1/2" – 12" PPG 2" – 24" Ductile Iron	1/2" – 12" PPG 2" – 24" Ductile Iron
Male Adapters	Use Butt with Socket Coupling	Use Butt with Socket Coupling

DRAINAGE PATTERN FITTINGS	PROLINE	ULTRA PROLINE	PVDF (General Grade)
Laterals	1 1/2" – 16": Pro 150 4" – 16": Pro 45 Fabricated	Available Upon Request Consult Factory	1 1/2" – 12" Fabricated
Laterals with 1/8th Bend	1 1/2" – 16": Pro 150 4" – 16": Pro 45 Fabricated	Available Upon Request Consult Factory	1 1/2" – 12" Fabricated
Sanitary Tee	1 1/2" – 16": Pro 150 4" – 16": Pro 45 Fabricated	Available Upon Request Consult Factory	1 1/2" – 12" Fabricated
Clean Out	1 1/2" – 16": Pro 150 4" – 16": Pro 45 Fabricated	Available Upon Request Consult Factory	1 1/2" – 12" Fabricated
P Trap	1 1/2" – 16": Pro 150 4" – 16": Pro 45 Fabricated	Available Upon Request Consult Factory	1 1/2" – 12" Fabricated

*Use SDR 21 pipe when socket welding PVDF. Socket fittings available in General Grade PVDF only.

VALVES			
PROLINE	ULTRA PROLINE	PURAD	PROVENT
Type 21 Ball Valve: 1/2"–4" Type 342 Diaphragm Valve: 1/2"–4" Type 342 Flanged Diaphragm Valve: 2 1/2" – 4" Type 14 Flanged Diaphragm Valve: 1/2" – 4" Type 14 True Union Diaphragm Valve: 1/2" – 2" Type 15 Diaphragm Valve: 6" Type G Diaphragm Valve: 8"–10" Ball Check Valve: 1/2" – 4" Swing Check Valve: 1/2" – 8" Needle Valve: 1/4" and 1/2"	Type 342 Spigot Diaphragm Valve: 1/2" – 2" (on request)	Type 21 Ball Valve: 1/2"–4" Type 342 Diaphragm: 1/2"–4" Type 342 Flanged Diaphragm Valve: 2 1/2" – 4" Type 14 Flanged Diaphragm Valve: 1/2" – 4" Type 14 True Union Diaphragm Valve: 1/2" – 2" Type 15 Diaphragm Valve: 6" Type G Diaphragm Valve: 8"–10" Ball Check Valve: 1/2" – 4" Swing Check Valve: 1/2" – 8" Sample Needle Valve: 1/4" & 1/2"	Damper Style: 4" – 54" Blast Gate: 4" – 54"