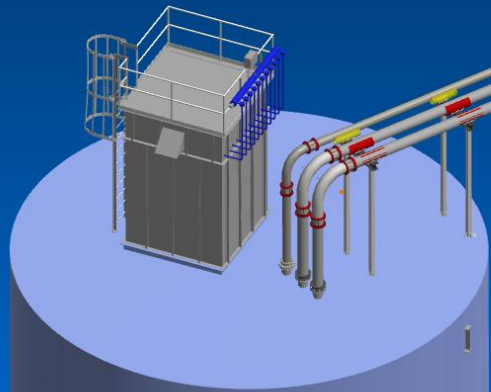
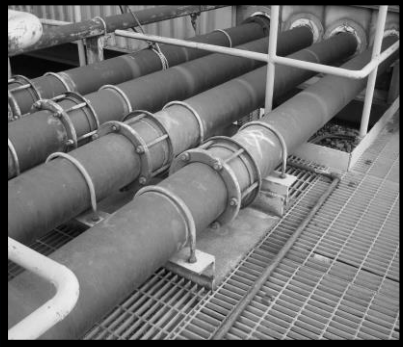
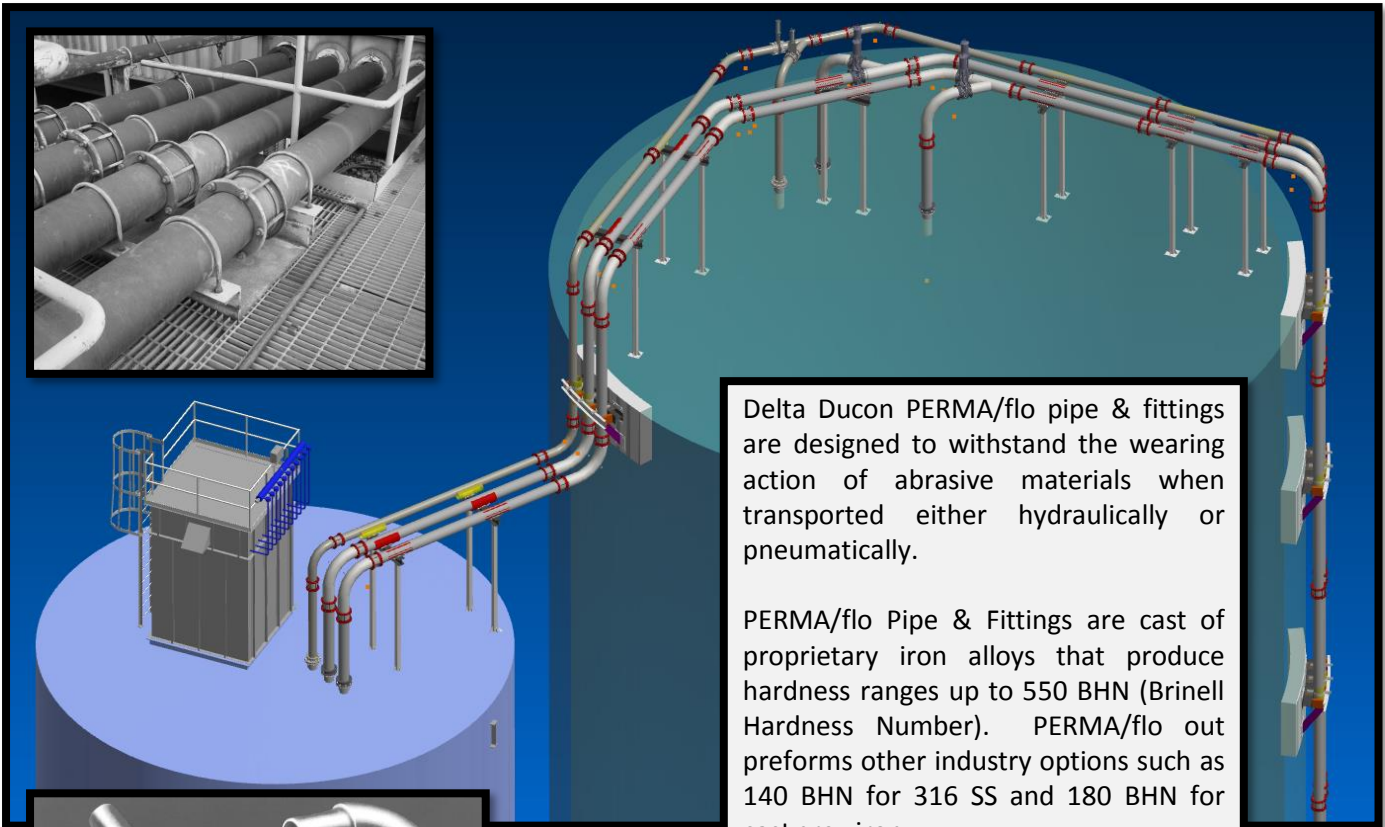


# PERMA/flo Pipe & Fittings

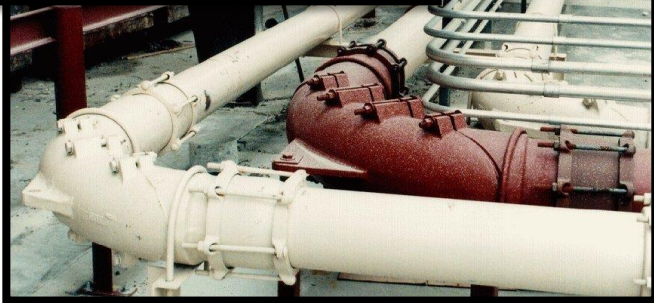
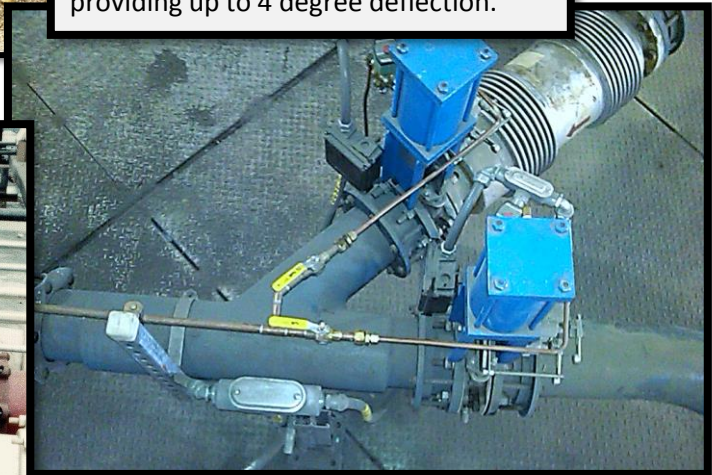
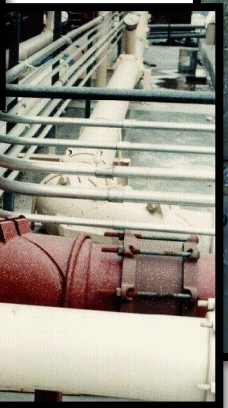
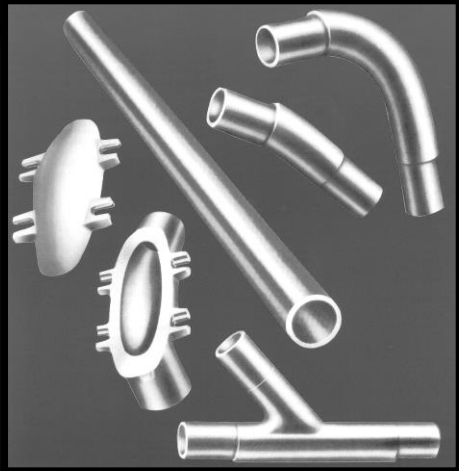
Piping for Abrasive Services



Delta Ducon PERMA/flo pipe & fittings are designed to withstand the wearing action of abrasive materials when transported either hydraulically or pneumatically.

PERMA/flo Pipe & Fittings are cast of proprietary iron alloys that produce hardness ranges up to 550 BHN (Brinell Hardness Number). PERMA/flo outperforms other industry options such as 140 BHN for 316 SS and 180 BHN for cast grey iron.

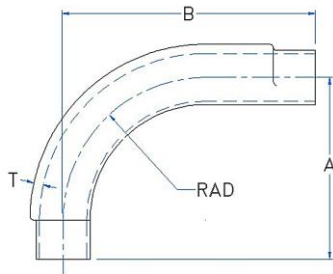
PERMA/flo Pipe & Fittings are joined together with the use of compression couplings. Couplings allow for minor thermal expansion and alignment, providing up to 4 degree deflection.



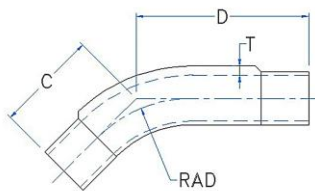
**DELTA DUCON, LLC**  
35 Sproul Road, Malvern, PA 19355  
Phone: 610.695-9700 - Fax: 610.695.9724  
[www.deltaducon.com](http://www.deltaducon.com)

# PERMA/flo Pipe & Fittings

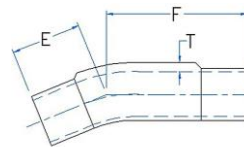
Piping for Abrasive Services



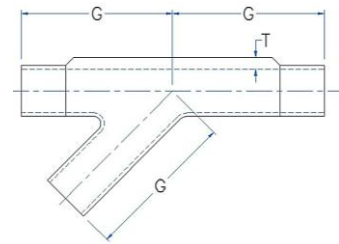
90° IWB



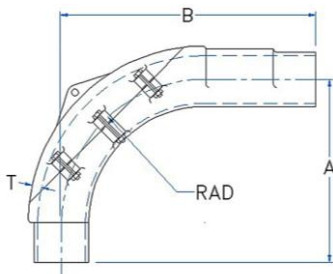
45° IWB



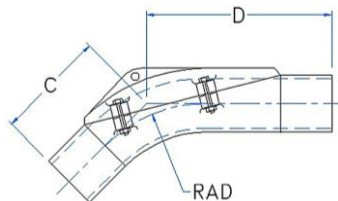
22.5° IWB



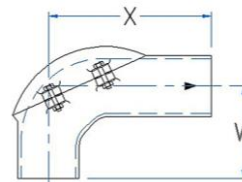
45° IWB Lateral



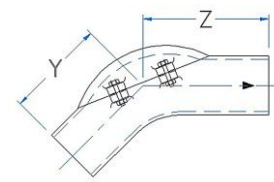
90° RWB



45° RWB



Impact Style  
90° RWB



Impact Style  
45° RWB

## PERMA/flo Pipe & Fittings

I.D.	O.D.	A	B	C	D	E	F	G	RAD	T	W	X	Y	Z
2	3.00	12.25	15.25	8.75	11.75	7.44	10.44	15.25	6.00	0.75	-	-	-	-
3	4.00	15.25	21.25	10.00	14.50	7.56	12.06	16.75	9.00	0.75	-	-	-	-
4	5.00	18.25	24.25	11.25	17.25	8.63	14.63	18.25	12.00	1.00	8.13	14.50	9.75	12.25
5	6.00	21.25	28.75	12.50	20.00	9.25	16.75	19.75	15.00	1.06	-	-	-	-
6	7.10	24.25	33.25	13.69	22.69	9.81	18.81	21.25	18.00	1.13	10.38	19.38	12.13	15.88
8	9.05	30.25	42.25	16.19	28.19	11.00	23.00	23.25	24.00	1.31	12.75	24.63	15.13	20.25
10	11.40	38.25	53.25	20.69	35.69	14.19	29.19	30.25	30.00	1.38	17.00	30.00	19.00	24.00
12	13.20	44.25	62.25	23.19	41.19	15.44	33.44	33.25	36.00	1.50	21.00	37.00	23.00	29.00
14	15.30	-	-	-	-	-	-	-	-	-	21.00	37.00	23.00	29.00

Note: All dimensions are in inches. Contact Delta Ducon for PERMA/flo Tees and other special fittings.  
 RWB = Removable Wear Back design      IWB = Intergral Wear Back design



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