

CROWN[®] HDPE

HIGH DENSITY POLYETHYLENE PIPES PNS-4427

CROWN FUERZA[®] PE100

CROWN SIGMA[®] PE80



CROWN FUERZA® PE 100

- High-end and industrial piping applications which demand higher pressure rates

CROWN SIGMA® PE 80

- Gas pipe for natural gas distribution network with pressure rate up to 4 bars
- Drinking water pipe with pressure rate up to 16 bars
- Sewers, Drainage, Irrigation, Distribution Lines

CROWN HDPE Pipes and Fittings conform to DIN 8074 and DIN 8075 Standards. *(Available in black and blue colors)*

HIGH DENSITY POLYETHYLENE (ISO)

NOMINAL SIZE (in)	OUTSIDE DIAMETER (mm)	STANDARD CUTTING LENGTH (meters)	SDR 9 PE 80 = PN16 PE100 = PN20 THICKNESS (mm)	SDR 11 PE 80 = PN12.5 PE100 = PN16 THICKNESS (mm)	SDR 13.6 PE 80 = PN10 PE100 = PN12.5 THICKNESS (mm)	SDR 17 PE 80 = PN8 PE100 = PN10 THICKNESS (mm)
1/2	20	300	2.3	1.9	1.6	1.2
3/4	25	150	2.8	2.3	1.9	1.5
1	32	100	3.6	3.0	2.4	2.0
1 1/4	40	60	4.5	3.7	3.0	2.4
1 1/2	50	60	5.6	4.6	3.7	3.0
2	63	60	7.1	5.8	4.7	3.8
2 1/2	75	60	8.4	6.8	5.6	4.5
3	90	6	10.1	8.2	6.7	5.4
4	110	6	12.3	10.0	8.1	6.6
6	160	6	17.9	14.6	11.8	9.5
8	225	6	25.2	20.5	16.6	13.4
10	280	6	31.3	25.4	20.6	16.6
12	315	6	35.2	28.6	23.2	18.7
14	355	6	39.7	32.2	26.1	21.1
16	400	6	44.7	36.3	29.4	23.7
18	450	6	50.3	40.9	33.1	26.7
20	500	6	55.8	45.4	36.8	29.7
22	560	6	62.5	50.8	41.2	33.2
24	630	6	70.3	57.2	46.3	37.4
28	710	6	79.3	64.5	52.2	42.1
32	800	6	89.3	72.6	58.8	47.4

HDPE PROPERTIES





Property	Test Method	Unit	Value (PE 80)	Value (PE 100)
Melt Flow Rate (190°C, 5kg)	ASTM D1238	G/10min	0.40	0.25
Density	ASTM D1505	kg/m ³	944	952
Tensile Strength at Yield	ASTM D638	MPa	21	22
Tensile Strength at Break	ASTM D638	MPa	31	33
Elongation at Break	ASTM D638	%	350	350
Flexural Modulus	ASTM D790	MPa	857	1078
ESCR, F ₅₀ (Bent strip, 10% Igepal, 50°C)	ASTM D1693	hours	>1000	>1000
Hardness	ASTM D2240	Shore D	61	64

PRECISION

COMPRESSION FITTINGS FOR PE PIPES (ISO)

PRODUCT	Size (mm)	Price (P)
 TEE 90	20	92.00
	25	132.00
	32	160.00
	40	410.00
	50	476.00
	63	800.00
	75	1,700.00
	90	3,600.00
 MALE TEE	20x1/2 in	96.00
	25x3/4in	116.00
	32x1 in	160.00
	40x1 1/4 in	450.00
	50x1 1/2 in	528.00
	63x2 in	688.00
	75x2 1/2 in	1,200.00
	90x3 in	2,200.00
 FEMALE TEE	20x1/2 in	96.00
	25x3/4in	116.00
	32x1 in	160.00
	40x1 1/4 in	450.00
	50x1 1/2 in	528.00
	63x2 in	688.00
	75x2 1/2 in	1,200.00
	90x3 in	2,200.00
 TEE REDUCER	110x4 in	4,500.00
	25x20	142.00
	32x25	168.00
	32x20	168.00
	40x32	415.00
	50x25	525.00
	50x20	525.00
	50x40	525.00
 END CAP	63x50	800.00
	20	40.00
	25	44.00
	32	52.00
	40	164.00
	50	186.00
	63	248.00
	75	380.00
90	1,600.00	
110	5,400.00	

PRODUCT	Size (mm)	Price (P)	
 ELBOW	20	84.00	
	25	96.00	
	32	124.00	
	40	400.00	
	50	440.00	
	63	616.00	
	75	1,500.00	
	90	2,800.00	
	110	5,000.00	
	 MALE ELBOW	20x1/2 in	64.00
25x3/4in		72.00	
32x1 in		88.00	
40x1 1/4 in		300.00	
50x1 1/2 in		330.00	
63x2 in		495.00	
75x2 1/2 in		1,125.00	
90x3 in		3,000.00	
110x4 in		3,750.00	
 FEMALE ELBOW		20x1/2 in	64.00
	25x3/4in	72.00	
	32x1 in	88.00	
	40x1 1/4 in	320.00	
	50x1 1/2 in	344.00	
	63x2 in	476.00	
	75x2 1/2 in	1,700.00	
	90x3 in	3,000.00	
	 SADDLE CLAMP	25x1/2 in	65.00
		32x1/2 in	80.00
32x3/4 in		80.00	
32x1 in		80.00	
40x1/2 in		94.00	
40x3/4 in		94.00	
40x1 in		94.00	
50x1/2 in		117.00	
50x3/4 in		117.00	
50x1 in		117.00	
 SADDLE CLAMP	63x1/2 in	147.00	
	63x3/4 in	147.00	
	63x1 in	147.00	
	63x1 1/4 in	160.00	
	75x1/2 in	200.00	
	75x3/4 in	200.00	
	75x1 in	200.00	

PRODUCT	Size (mm)	Price (P)
 COUPLING	20	72.00
	25	90.00
	32	102.00
	40	244.00
	50	292.00
	63	410.00
	75	1,300.00
	90	2,000.00
	110	5,600.00
	 COUPLING REDUCER	25x20
32x20		132.00
32x25		132.00
40x32		368.00
50x25		440.00
50x32		440.00
50x40		440.00
63x20		600.00
63x25		600.00
63x32		600.00
 FEMALE ADAPTER	63x40	600.00
	63x50	600.00
	75x63	1,600.00
	90x63	2,400.00
	90x75	2,400.00
	110x90	6,900.00
	20x1/2 in	52.00
	25x3/4 in	58.00
	32x1 in	92.00
	40x1 1/4 in	244.00
50x1 1/2 in	290.00	
 MALE ADAPTER	63x2 in	370.00
	75x2 1/2 in	800.00
	90x3 in	1,680.00
	110x4 in	5,200.00
	20x1/2 in	40.00
	25x3/4 in	44.00
	32x1 in	52.00
	40x1 1/4 in	149.00
	50x1 1/2 in	186.00
	63x2 in	248.00
MALE ADAPTER Special Sizes	75x2 1/2 in	700.00
	90x3 in	1,600.00
	110x4 in	5,000.00
	20x3/4 in	40.00
	25x1 in	44.00
	32x1 1/4 in	52.00
40x1 1/2 in	149.00	
50x2 in	186.00	
63x2 1/2 in	248.00	

1-FIT CROWN FITTINGS MATCH ALL STANDARD PIPES!

HDPE BUTT WELDED FITTINGS

	Size mm			Size mm x mm			Size mm			Size mm	
	63	315		90x75	355x315		75	90		90	110
	75	355		110x90	400x355		110				
	90	400		160x110	450x400		160				
	110	450		225x160	500x450		225				
	160	500		280x225	560x500		280				
	225	560		315x280	630x560		315				
	280	630					400				
	Size mm			Size mm			Size mm			Size mm	
	75	280		75	280		75	280		90	
	90	315		90	315		90	315		110	
	110	355		110	355		110	355		160	
	160	400		160	400		160	400		225	
225		225		225		280					
						315					

CROWN[®] HDPE

HIGH DENSITY POLYETHYLENE PIPES PNS-4427

FEATURES

- CHEMICAL RESISTANT WITH THERMAL PROPERTIES
- HIGH FLOW CAPACITY
- LONG LIFE CYCLE
- NON-CORROSIVE
- TOUGH AND FLEXIBLE
- WEATHER & ENVIRONMENTAL STRESS RESISTANT

HYDRAULIC BUTT FUSION WELDING MACHINE



SHBD 160
P392,600.00



SHBD 250
P434,200.00



SHBD 315
P514,800.00



SHBD 630
P1,410,500.00

SPECIFICATION	
Welding range (mm)	63, 75, 90, 110, 125, 140, 160
Heating plate temperature	270 °C
Heating plate surface temperature (170-250°C)*	<±5 °C
Pressure adjustment range	0-6.3 MPa
Cross-sectional area of the cylinder	626 mm ²
Operating voltage	220 v, 60 Hz
Heating plate power	1.0 Kw
Cutter power	0.85 Kw
Hydraulic station power	0.75 Kw
Total power	2.6 Kw

SPECIFICATION	
Welding range (mm)	110, 125, 140, 160, 180, 200, 225, 250
Heating plate temperature	270 °C
Heating plate surface temperature (170-250°C)*	<±5 °C
Pressure adjustment range	0-6.3 MPa
Cross-sectional area of the cylinder	1100 mm ²
Operating voltage	220 v, 60 Hz
Heating plate power	2.1 Kw
Cutter power	1.36 Kw
Hydraulic station power	0.75 Kw
Total power	4.21 Kw

SPECIFICATION	
Welding range (mm)	160, 180, 200, 225, 250, 280, 315
Heating plate temperature	270 °C
Heating plate surface temperature (170-250°C)*	<±5 °C
Pressure adjustment range	0-6.3 MPa
Cross-sectional area of the cylinder	2000 mm ²
Operating voltage	220 v, 60 Hz
Heating plate power	3.1 Kw
Cutter power	1.36 Kw
Hydraulic station power	0.75 Kw
Total power	5.21 Kw

SPECIFICATION	
Welding range (mm)	355, 400, 450, 500, 560, 630
Heating plate temperature	270 °C
Heating plate surface temperature (170-250°C)*	<±5 °C
Pressure adjustment range	0-6.3 MPa
Cross-sectional area of the cylinder	2000 mm ²
Operating voltage	220 v, 60 Hz
Heating plate power	9.2 Kw
Cutter power	1.5 Kw
Hydraulic station power	0.75 Kw
Total power	12.2 Kw

BUTT FUSION MACHINE OPERATION STEPS



1

CLAMPING



2

FACING



3

ALIGNMENT



4

HEATING



5

FUSING



6

COOLING

A QUALITY PRODUCT MANUFACTURED BY :

CROWN ASIA CHEMICALS CORPORATION[®]

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