

Your Satisfaction, Our Aspiration

PENGUIN 

Waterful
上善若水

A Benchmark Of Water Quality For Healthy
Life By Sustaining Nature Eco System.

绿色水源，绿化人心，活水源头。



Why PENGUIN?

- Reduce maintenance and handling cost
- Harmless to human and environment
- Increase consumer's confidence
- Multi purpose of combination and application
- Improve productivity and cost effectively in overall system

Product Highlight Features

- Fast and easy installation
- Light weight & easy handling
- Corrosion, biological and chemical resistant
- Superior flow characteristics
- Used extensively worldwide
- 2.5 times safety factor performance testing.
- Economical
- Durable connection joint

Industry

- Building
- Infrastructure
- Agriculture
- Mining
- Cable ducting
- Aquatic

Installation Method

- Mechanical

Application

- Plumbing pipe line
- Water distribution system
- Sewerage pipeline system
- Drainage system



Enhanced ribs to strengthen performance up to PN16



Produce with high performance polypropylene with corrosion, biological and chemical resistant complied to BS6920



Come with high quality components to meet international standard requirement.



Rubber O'Ring complied to AS1646 with Long term performance

Excellent UV protection to maintain product structure during outdoor exposure

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17 PP THERMOPLASTIC FERRULE

- . For Threaded Connection
- . For PE Pipes Connection
- . Allen Key

18 PP CLAMP SADDLE

Clamp Saddle (C.S)
(Galvanised) Bolt & Nut [C.S.]

19 PP DOUBLE OUTLET SADDLE

Double Outlet Saddle (D.O.S)
(Galvanised) Bolt & Nut [D.O.S.]

20 PP THREADED FITTINGS

- . Nipple & R.Nipple . Bush
- . Plug . Tank Connector

21 TOOLS AND ACCESSORIES

- . Universal Mechanical Tapping Tool ,
UMT (GK/CITY) Come with drillsaw
1/2" , 3/4" , 1"
- . UMT (SSS)
- . Universal Strap Wrench

INSTALLATION METHOD FOR PP COMPRESSION FITTINGS

- 22 . Clinching Ring Type (20mm to 63mm)
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24 INSTALLATION METHOD FOR PP CLAMP SADDLE / PP THERMOPLASTIC FERRULE



PRODUCT SPECIFICATION & STANDARD REFERENCE

PENGUIN  by Polyware™

PRODUCT DESCRIPTION	SIZE (mm)	MAXIMUM OPERATING PRESSURE (PN) AT TEMPERATURE 20°C	REFERENCE STANDARD
PP Compression Fittings	20mm - 63mm 75mm - 110mm	16 10	ISO 17885
PP Compression Fittings c/w Brass Threaded Insert	20mm - 63mm	16	ISO 17885
PP Thermoplastic Ferrule	20mm, 25mm, 32mm	16	JKR 20200-0055-99
PP Clamp Saddle	25mm - 180mm 200mm - 250mm	10 8	BS 21, ISO 7 (Threaded Outlet)
PP Threaded Fittings	3/8" - 2"	10	BS 21, ISO 7

[PIPE SUITABILITY] Polyethylene Pipe PE 80 & PE 100 (ISO 4427 & MS 1058)

APPROVALS

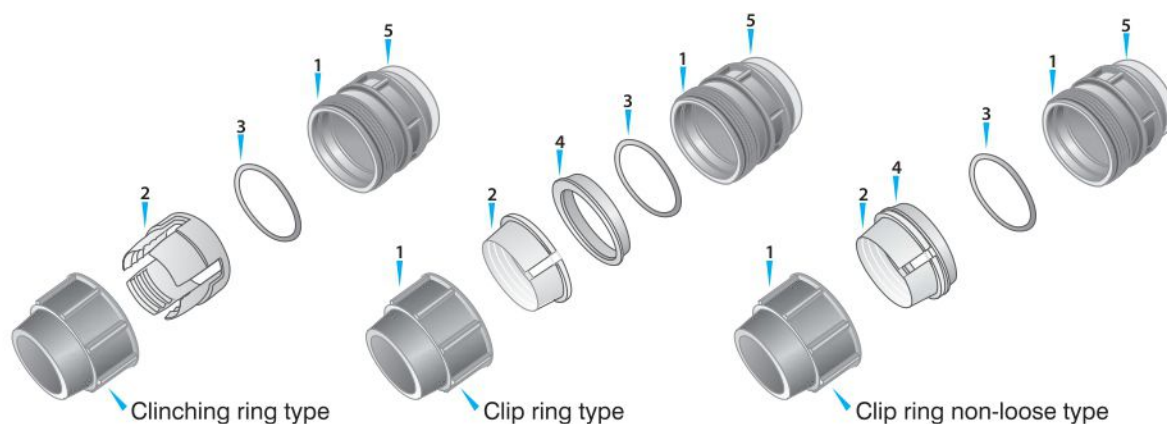
Penguin PP Compression Fittings in accordance to BS 5114 certification no: PP015502 since 1998 are approved and recognized by:

- * SIRIM QAS International Sdn. Bhd. in Malaysia.
- * Suruhanjaya Perkhidmatan Air Negara (SPAN) in Malaysia.
- * IKRAM QA Certification Body.



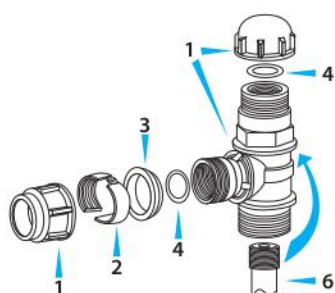
PP COMPRESSION FITTINGS

PENGUIN  by Polyware™

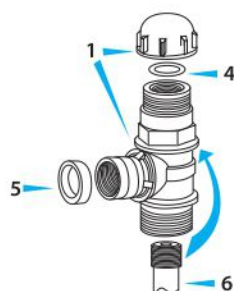


MATERIAL COMPOSITION

PP Compression Fittings	PP Compression Fittings c/w Brass Threaded Insert
1 Body & nut (PP) High Performance Polypropylene.	1 Body & nut (PP) High Performance Polypropylene.
2 Clinching / Clip ring Polyacetal.	2 Clinching / Clip ring Polyacetal.
3 Rubber O'ring (NBR) nitrile butadiene rubber / Others materials - upon request.	3 Rubber O' ring (NBR) nitrile butadiene rubber / Others materials - upon request.
4 Pusher (If applicable) (PP) High Performance Polypropylene	4 Pusher (If applicable) (PP) High Performance Polypropylene
5 Ring cap (If applicable) Stainless steel or equivalent.	5 Ring cap Stainless steel or equivalent.
	6 Insert Brass BSP threaded (Standard BS 21)nickel plated brass



for PE Pipes Connection

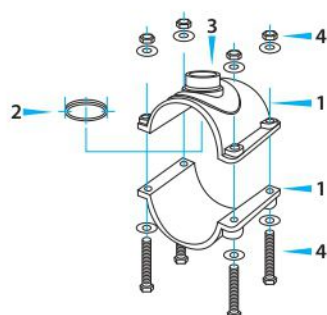


for Threaded Connection

MATERIAL COMPOSITION

PP Thermoplastic Ferrule

1. **Body, cap & nut**
(PP) High Performance Polypropylene
2. **Clinching / Clip ring**
Polyacetal
3. **Pusher (If applicable)**
(PP) High Performance Polypropylene
4. **Rubber O'ring**
(NBR) nitrile butadiene rubber /
(EPDM) Ethylene Propylene Rubber
5. **Ring cap**
Stainless Steel or equivalent
6. **Cutter**
Carbon steel, zinc plated / Stainless Steel



MATERIAL COMPOSITION

PP Clamp Saddles

1. **Body**
(PP) High Performance Polypropylene
2. **Rubber O'ring / Gasket**
(NBR) nitrile butadiene rubber
3. **Ring cap**
Stainless Steel or equivalent
4. **Bolt, nuts & washer**
Galvanised or Stainless Steel (optional)

MATERIAL COMPOSITION

PP Threaded Fittings

- Material**
(PP) High Performance Polypropylene

LCL Standard Packing Volume 1.25M x 1.25M x 1.60M (2.5M³)**Carton Packing Volume for Plastic Pallet**

CARTON TYPE (mm)	CARTONS PER LAYER	LAYER PER PALLET	CARTON PER PALLET
PP (560 X 400 X 410)	5	3	15
POLY – 1 (370 X 370 X 280)	6	5	30
POLY – 2 (465 X 385 X 210)	6	6	36
POLY – 3 (600 X 460 X 350)	4	4	16

CARTON TYPE (mm)	PRODUCT
PP (560 X 400 X 410)	PP fittings, Clamp Saddle

CARTON TYPE (mm)	PRODUCT
POLY – 1 (370 X 370 X 280)	PE Stud End Short – 50mm, 63mm, 160mm, 180mm, 20mm, 225mm PE stud End Long – 20mm, 25mm, 32mm, 40mm, 50mm PE Spigot Tee – 63mm, 90mm, 110mm PE Elbow 90 deg – 63mm, 90mm, 110mm, 125mm PE Elbow 45 deg – 63mm, 110mm, 125mm PE End Cap – 63mm, 90mm, 110mm, 125mm, 160mm, 180mm, 225mm PE Flat Cap – 225mm, 250mm, 280mm, 315mm, 345mm, 355mm PE Reducer – 50mm x 25mm, 50mm x 32mm, 50mm x 40mm, 63mm x 32mm, 63mm x 40mm, 63mm x 40mm, 75mm x 50mm, 90mm x 50mm, 90mm x 63mm, 90mm x 75mm, 110mm x 75mm, 110mm x 90mm, 125mm x 63mm, 125mm x 90mm, 125mm x 110mm, 160mm x 90mm, 160mm x 110mm, 160mm x 125mm, 180mm x 90mm, 180mm x 110mm, 180mm x 125mm, 180mm x 160mm, 200mm x 110mm, 200mm x 125mm, 200mm x 160mm, 200mm x 180mm.

CARTON TYPE (mm)	PRODUCT
POLY – 2 (465 X 385 X 210)	Flange Adaptor – 63mm, 75mm, 90mm, 110mm PE Stud End Short – 75mm, 90mm, 110mm, 125mm PE Stud End Long – 63mm, 75mm, 90mm, 110mm, 125mm, 160mm, 180mm PE Elbow 45 deg – 90mm PE Flat Cap – 200mm, 400mm, 450mm EF Straight Coupler – 20mm, 25mm, 32mm, 63mm, 90mm, 110mm, 125mm, 160mm, 180mm EF Elbow 90deg – 63mm, 90mm

CARTON TYPE (mm)	PRODUCT
POLY – 3 (600 X 460 X 350)	PE Spigot Tee – 125mm, 160mm, 180mm PE Elbow 90 deg – 160mm, 180mm PE Elbow 45 deg – 160mm, 180mm

STANDARD PACKING VOLUME FOR LCL & FCL

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Maximum Requirement for plastic pallet :

1.25M x 1.25M x 1.60M (2.5M³)

Estimate Weight for bag, carton, plastic & Wooden pallet

- 1 1 bag – approximate 18 kg
- 2 1 carton – approximate 20 kg
- 3 1 plastic pallet – approximate 7 kg
- 4 1 wooden pallet – approximate 45 kg

LCL Standard Packing Volume

Bags Packing Volume for Wooden pallet

FITTING SIZE (mm)	BAGS PER LAYER	LAYER PER PALLET	TOTAL BAGS PER PALLET
20 - 25	5	6	30
32 - 50	5	5	25
63 - 110	5	4	20
Tee fitting 110	4	4	16

Bags Packing Volume for Plastic pallet

FITTING SIZE (mm)	BAGS PER LAYER	LAYER PER PALLET	TOTAL BAGS PER PALLET
20 - 25	5	6	30
32 - 50	5	5	25
63 - 110	5	5	20
Tee fitting 110	3	4	12

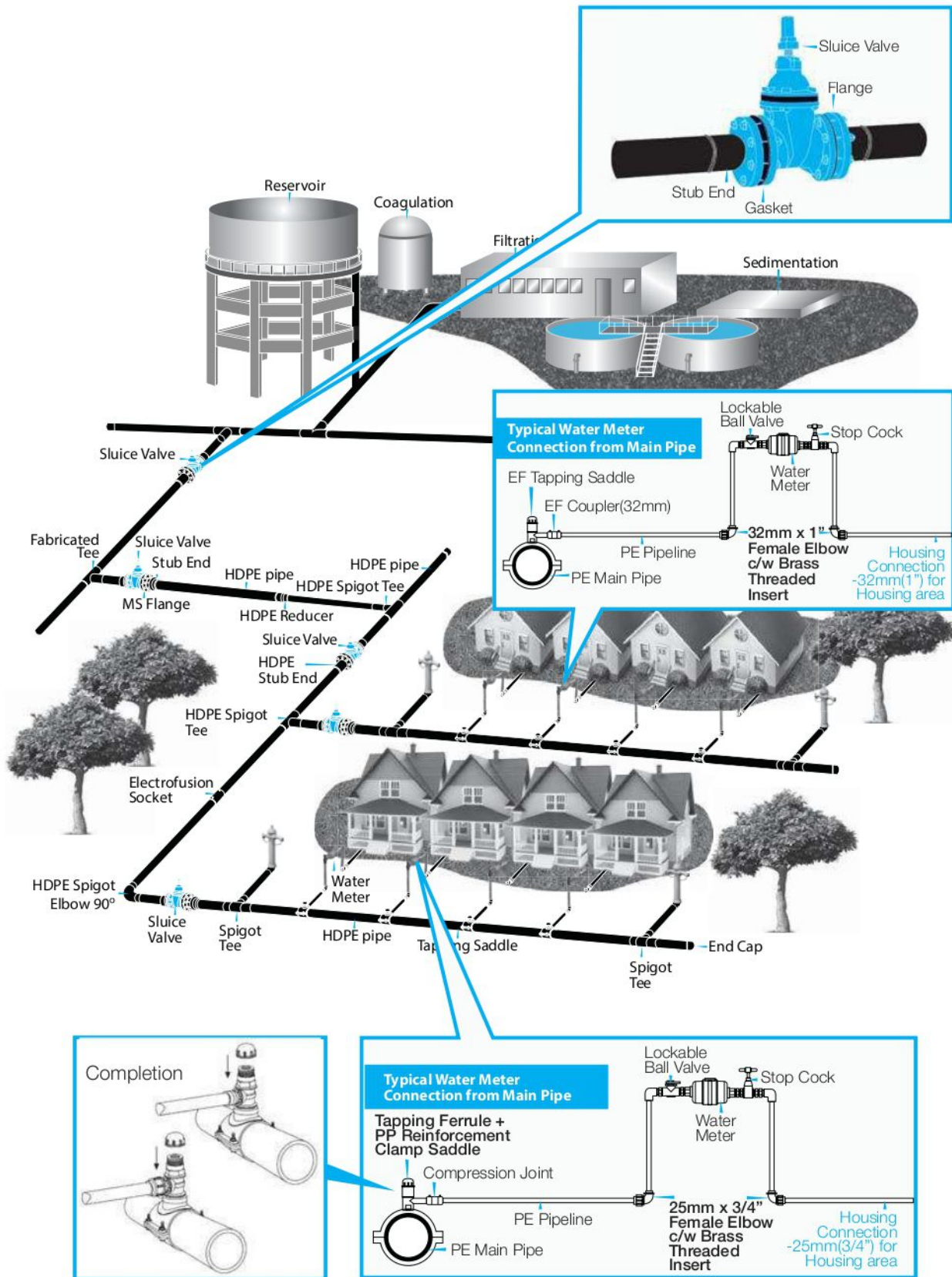
FCL Standard Packing Volume

1. 1 x 20ft Container @ 350 Standard Bags or 280 Box
2. 1 x 40ft Container @700 Standard Bags or 560 Box

HOUSING CONNECTION

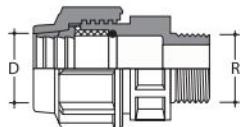
Water Distribution System

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PP COMPRESSION FITTINGS

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M.T.A.

Male Threaded Adaptor

SIZE D(mm) x R(inch)	STANDARD PACK	
	NOS / BAG	NOS / CARTON
20 mm x 1/2"	500	500
20 mm x 3/4"	500	500
25 mm x 1/2"	300	300
25 mm x 3/4"	300	300
25 mm x 1"	300	300
32 mm x 1/2"	200	200
32 mm x 3/4"	200	200
32 mm x 1"	200	200
40 mm x 1"	120	120
40 mm x 1 1/4"	120	120
40 mm x 1 1/2"	120	120

SIZE D(mm) x R(inch)	STANDARD PACK	
	NOS / BAG	NOS / CARTON
50 mm x 1 1/4"	80	80
50 mm x 1 1/2"	80	80
50 mm x 2"	80	80
63 mm x 2"	50	50
75 mm x 2"	25	25
75 mm x 2 1/2"	25	25
90 mm x 3"	20	20
110 mm x 4"	15	9

* BSP Taper Male Threaded



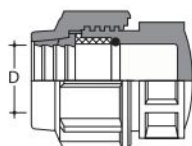
F.T.A.

Female Threaded Adaptor

SIZE D(mm) x Rp(inch)	STANDARD PACK	
	NOS / BAG	NOS / CARTON
20 mm x 1/2"	400	400
20 mm x 3/4"	400	400
25 mm x 1/2"	250	250
25 mm x 3/4"	250	250
25 mm x 1"	250	250
32 mm x 3/4"	180	180
32 mm x 1"	180	180
* 40 mm x 1"	100	100
* 40 mm x 1 1/4"	100	100
* 40 mm x 1 1/2"	100	100

SIZE D(mm) x Rp(inch)	STANDARD PACK	
	NOS / BAG	NOS / CARTON
* 50 mm x 1 1/4"	60	60
* 50 mm x 1 1/2"	60	60
* 63 mm x 2"	40	40
* 75 mm x 2"	25	25
* 75 mm x 2 1/2"	25	25
* 90 mm x 3"	20	20
* 110 mm x 4"	15	9

* Come With Reinforced Stainless Steel Ring Cap
* BSP Parallel Female Threaded



E.C.

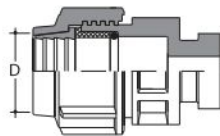
End Cap

SIZE D(mm)	STANDARD PACK	
	NOS / BAG	NOS / CARTON
20 mm	500	500
25 mm	300	300
32 mm	200	200
40 mm	120	120
50 mm	80	80

SIZE D(mm)	STANDARD PACK	
	NOS / BAG	NOS / CARTON
63 mm	50	50
75 mm	25	25
90 mm	20	20
100 mm	16	12

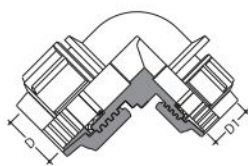
PP COMPRESSION FITTINGS

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V.A.
Vitaulic Adaptor

SIZE D(mm)	STANDARD PACK	
	NOS / BAG	NOS / CARTON
63mm	40	40
110mm	15	9



R.E.
Reducing Elbow

SIZE D(mm) x D1(mm)	STANDARD PACK	
	NOS / BAG	NOS / CARTON
50 mm x 25mm	60	60
50 mm x 32mm	60	60

PP COMPRESSION FITTINGS

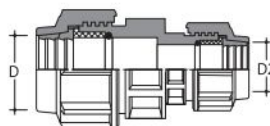
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S.C.
Straight Coupler

SIZE D(mm)	STANDARD PACK	
	NOS / BAG	NOS / CARTON
20 mm x 20 mm	250	250
25 mm x 25 mm	180	180
27 mm x 27 mm	180	180
32 mm x 32 mm	120	120
40 mm x 40 mm	80	60

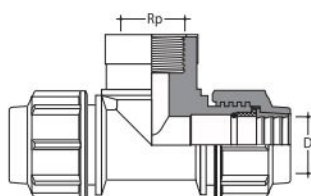
SIZE D(mm)	STANDARD PACK	
	NOS / BAG	NOS / CARTON
50 mm x 50 mm	50	40
63 mm x 63 mm	30	30
75 mm x 75 mm	20	16
90 mm x 90 mm	15	9
110 mm x 110 mm	8	6



R.C.
Reducing Coupler

SIZE D(mm) x D2(mm)	STANDARD PACK	
	NOS / BAG	NOS / CARTON
25 mm x 20 mm	200	200
27 mm x 25 mm	180	180
32 mm x 20 mm	150	150
32 mm x 25 mm	150	150
40 mm x 20 mm	100	100
40 mm x 25 mm	100	100
40 mm x 32 mm	100	80
50 mm x 20 mm	60	60
50 mm x 25 mm	60	60
50 mm x 32 mm	60	60
50 mm x 40 mm	60	50

SIZE D(mm) x D2(mm)	STANDARD PACK	
	NOS / BAG	NOS / CARTON
63 mm x 25 mm	40	35
63 mm x 32 mm	40	35
63 mm x 40 mm	40	35
63 mm x 50 mm	35	30
75 mm x 50 mm	20	16
75 mm x 63 mm	20	16
90 mm x 63 mm	20	12
90 mm x 75 mm	15	12
110 mm x 63 mm	10	6
110 mm x 90 mm	10	6



F.T.
Female Tee

SIZE D(mm) x Rp(inch)	STANDARD PACK	
	NOS / BAG	NOS / CARTON
20 mm x 1/2"	180	180
20 mm x 3/4"	180	180
25 mm x 1/2"	120	120
25 mm x 3/4"	120	120
25 mm x 1"	120	120
32 mm x 1"	90	90
32 mm x 3/4"	90	90
* 40 mm x 1"	50	50
* 40 mm x 1 1/4"	50	50
* 50 mm x 1 1/4"	30	30
* 50 mm x 1 1/2"	30	30

SIZE D(mm) x Rp(inch)	STANDARD PACK	
	NOS / BAG	NOS / CARTON
* 63 mm x 2"	20	15
* 75 mm x 2"	15	9
* 75 mm x 2 1/2"	15	9
* 90 mm x 3"	10	8
* 110 mm x 3"	5	3
* 110 mm x 4"	5	3

* Come With Reinforced Stainless Steel Ring Cap

* BSP Parallel Female Threaded

PP COMPRESSION FITTINGS

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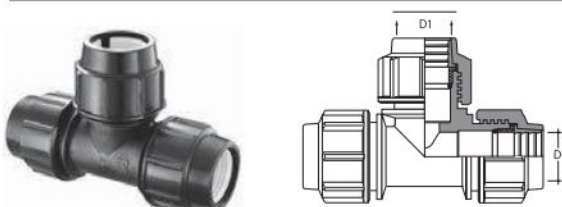


M.T.
Male Tee

SIZE D(mm) x R(inch)	STANDARD PACK	
	NOS / BAG	NOS / CARTON
20 mm x 1/2"	180	180
20 mm x 3/4"	180	180
25 mm x 1/2"	120	120
25 mm x 3/4"	120	120
25 mm x 1"	120	120
32 mm x 3/4"	90	90
32 mm x 1"	90	90
40 mm x 1"	50	50
40 mm x 1 1/4"	50	50

SIZE D(mm) x R(inch)	STANDARD PACK	
	NOS / BAG	NOS / CARTON
50 mm x 1 1/4"	30	30
50 mm x 1 1/2"	30	30
63 mm x 1"	20	15
63 mm x 2"	20	15
75 mm x 2"	15	9
75 mm x 2 1/2"	15	9
90 mm x 3"	10	8
110 mm x 3"	5	3
110 mm x 4"		

* BSP Taper Male Threaded



E.T.
Equal Tee

SIZE D(mm) x D1(mm)	STANDARD PACK	
	NOS / BAG	NOS / CARTON
20 mm x 20 mm	150	150
25 mm x 25 mm	100	100
32 mm x 32 mm	60	60
40 mm x 40 mm	40	40
50 mm x 50 mm	25	25

SIZE D(mm) x D1(mm)	STANDARD PACK	
	NOS / BAG	NOS / CARTON
63 mm x 63 mm	20	16
75 mm x 75 mm	12	8
90 mm x 90 mm	8	6
110 mm x 110 mm	5	3



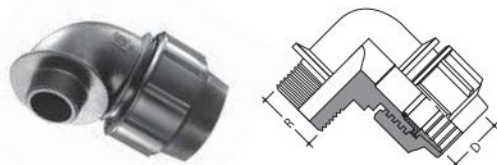
R.T.
Reducing Tee

SIZE D(mm) x D2(mm)	STANDARD PACK	
	NOS / BAG	NOS / CARTON
25 mm x 20 mm	100	100
32 mm x 20 mm	75	70
32 mm x 25 mm	75	70
40 mm x 25 mm	40	40
40 mm x 32 mm	40	40
50 mm x 20 mm	30	25
50 mm x 25 mm	30	25
50 mm x 32 mm	30	25
50 mm x 40 mm	30	25

SIZE D(mm) x D2(mm)	STANDARD PACK	
	NOS / BAG	NOS / CARTON
63 mm x 25 mm	20	16
63 mm x 32 mm	20	16
63 mm x 40 mm	20	16
63 mm x 50 mm	20	16
75 mm x 50 mm	12	8
75 mm x 63 mm	12	8
90 mm x 63 mm	8	6
90 mm x 75 mm	8	6
110 mm x 63 mm	5	3
110 mm x 75 mm	5	3
110 mm x 90 mm	5	3

PP COMPRESSION FITTINGS

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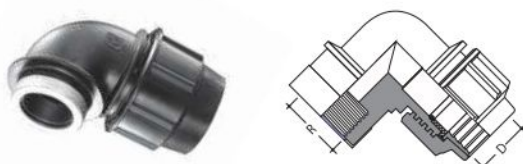


M.E.
Male Elbow

SIZE D(mm) x R(inch)	STANDARD PACK	
	NOS / BAG	NOS / CARTON
20 mm x 1/2"	300	300
20 mm x 3/4"	300	300
25 mm x 1/2"	250	250
25 mm x 3/4"	250	250
25 mm x 1"	200	200
32 mm x 3/4"	150	150
32 mm x 1"	150	150
40 mm x 1"	100	100
40 mm x 1 1/4"	100	100

SIZE D(mm) x R(inch)	STANDARD PACK	
	NOS / BAG	NOS / CARTON
50 mm x 1 1/4"	60	60
50 mm x 1 1/2"	60	60
63 mm x 2"	35	28
75 mm x 2"	25	15
75 mm x 2 1/2"	25	15
90 mm x 3"	16	12
110 mm x 3"	10	6
110 mm x 4"	10	6

* BSP Taper Male Threaded



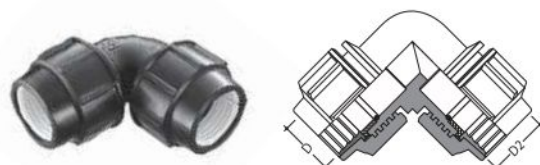
F.E.
Female Elbow

SIZE D(mm) x R(inch)	STANDARD PACK	
	NOS / BAG	NOS / CARTON
20 mm x 1/2"	300	300
20 mm x 3/4"	300	300
25 mm x 1/2"	250	250
25 mm x 3/4"	250	250
25 mm x 1"	200	200
32 mm x 3/4"	150	150
32 mm x 1"	150	150
* 40 mm x 1"	80	80
* 40 mm x 1 1/4"	80	80

SIZE D(mm) x R(inch)	STANDARD PACK	
	NOS / BAG	NOS / CARTON
* 50 mm x 1 1/4"	50	50
* 50 mm x 1 1/2"	50	50
* 63 mm x 2"	35	28
* 75 mm x 2"	25	20
* 75 mm x 2 1/2"	25	20
* 90 mm x 3"	16	12
* 110 mm x 3"	10	6
* 110 mm x 4"	10	6

* Come With Reinforced Stainless Steel Ring Cap

* BSP Parallel Female Threaded



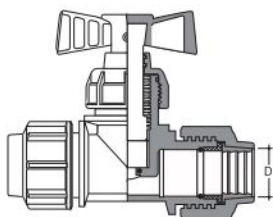
E.E.
Equal Elbow

SIZE D(mm) x D2(mm)	STANDARD PACK	
	NOS / BAG	NOS / CARTON
20 mm x 20 mm	250	250
25 mm x 25 mm	150	150
32 mm x 32 mm	100	100
40 mm x 40 mm	60	60

SIZE D(mm) x D2(mm)	STANDARD PACK	
	NOS / BAG	NOS / CARTON
50 mm x 50 mm	40	40
63 mm x 63 mm	25	20
75 mm x 75 mm	16	12
90 mm x 90 mm	12	9
110 mm x 110 mm	8	5

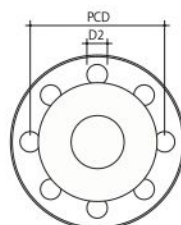
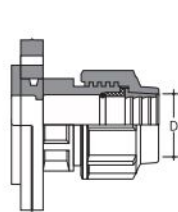
PP COMPRESSION FITTINGS

PENGUIN  by Polyware™



PP Compression Stop Tap

SIZE D(mm)	STANDARD PACK	
	NOS / BAG	NOS / CARTON
20 mm x 20 mm	100	100
25 mm x 25 mm	100	100
32 mm x 32 mm	60	60



Flange Adaptor

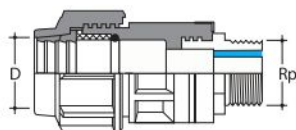
SIZE D(mm)	STANDARD PACK		LOOSE BACKING FLANGES						
			MATERIAL			PITCH CIRCLE DIAMETER (mm)	BOLTS		
	NOS / BAG	NOS / CARTON	PP	PE	MILD STEEL		BOLT HOLE DIAMETER(mm)	NUMBER	SCREW THREAD
63 mm	7	7	PN 6	-	PN 10	125	18	4	M 16
75 mm	6	6	PN 6	-	PN 10	145	18	4	M 16
90 mm	5	5	PN 6	-	PN 10	160	18	8	M 16
110 mm	5	4	1	PN 10	PN 10	180	18	8	M 16

* With optional PP, MS, PE Flange

PP COMPRESSION FITTINGS

BSP Nickel Plated Brass Threaded Insert & Reinforced Stainless Steel Ring Cap

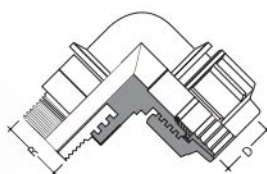
PENGUIN  by Polyware™



BMTA

Male Adaptor C/W
Brass Threaded Insert

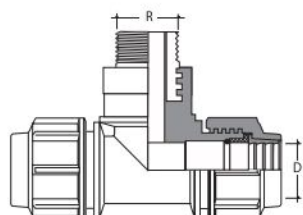
SIZE D(mm) x Rp(inch)	STANDARD PACK NOS / CARTON
20 mm x 1/2"	150
20 mm x 3/4"	150
25 mm x 1/2"	100
25 mm x 3/4"	100
25 mm x 1"	80
32 mm x 3/4"	60
32 mm x 1"	60
40 mm x 1 1/4"	30
50 mm x 1 1/2"	30
63 mm x 2"	30



BME

Male Elbow C/W
Brass Threaded Insert

SIZE D(mm) x R(inch)	STANDARD PACK NOS / CARTON
20 mm x 1/2"	100
20 mm x 3/4"	100
25 mm x 1/2"	80
25 mm x 3/4"	80
25 mm x 1"	80
32 mm x 3/4"	40
32 mm x 1"	40



BMT

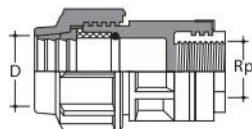
Male Tee C/W
Brass Threaded Insert

SIZE D(mm) x R(inch)	STANDARD PACK NOS / CARTON
20 mm x 1/2"	60
20 mm x 3/4"	60
25 mm x 1/2"	40
25 mm x 3/4"	40
25 mm x 1"	40
32 mm x 3/4"	20
32 mm x 1"	20

PP COMPRESSION FITTINGS

PENGUIN  by Polyware™

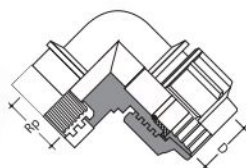
BSP Nickel Plated Brass Threaded Insert & Reinforced Stainless Steel Ring Cap



BFTA

Female Adaptor C/W
Brass Threaded Insert

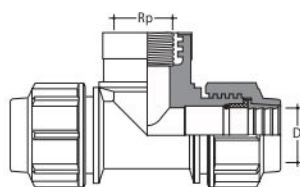
SIZE D(mm) x R(inch)	STANDARD PACK NOS / CARTON
20 mm x 1/2"	150
20 mm x 3/4"	150
25 mm x 1/2"	100
25 mm x 3/4"	100
25 mm x 1"	80
32 mm x 3/4"	60
32 mm x 1"	60
40 mm x 1 1/4"	30
50 mm x 1 1/2"	30



BFE

Female Elbow C/W
Brass Threaded Insert

SIZE D(mm) x Rp(inch)	STANDARD PACK NOS / CARTON
20 mm x 1/2"	100
20 mm x 3/4"	100
25 mm x 1/2"	80
25 mm x 3/4"	80
25 mm x 1"	80
32 mm x 3/4"	40
32 mm x 1"	40



BFT

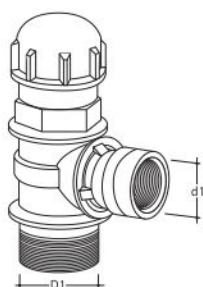
Female Tee C/W
Brass Threaded Insert

SIZE D(mm) x Rp(inch)	STANDARD PACK NOS / CARTON
20 mm x 1/2"	60
20 mm x 3/4"	60
25 mm x 1/2"	40
25 mm x 3/4"	40
25 mm x 1"	40
32 mm x 3/4"	20
32 mm x 1"	20

PP THERMOPLASTIC FERRULE

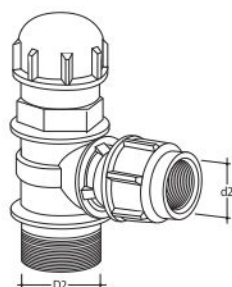
(C/W Carbon Steel Cutter or Stainless Steel Cutter) BSP Threaded

PENGUIN  by Polyware™



For Threaded Connection

SIZE D1(inch) x d1(inch)	STANDARD PACK	
	NOS / BAG	NOS / CARTON
1" x 1/2"	50	100
1" x 3/4"	50	100
1" x 1"	50	100
1 1/4" x 1/2"	50	100
1 1/4" x 3/4"	50	100
1 1/4" x 1"	50	100



For PE Pipes Connection

SIZE D2(inch) x d2(mm)	STANDARD PACK	
	NOS / BAG	NOS / CARTON
1" x 20 mm	50	100
1" x 25 mm	50	100
1" x 32 mm	50	100
1 1/4" x 20 mm	50	100
1 1/4" x 25 mm	50	100
1 1/4" x 32 mm	50	100



Allen Key

SIZE D3(mm) x d3(mm)
10 mm x 170mm

PP CLAMP SADDLE

[Mechanical Type] with reinforced ring, Rubber O' ring or Rubber Gasket

PENGUIN  by Polyware™



C.S.

**Clamp Saddle (C.S)
(Galvanised) Bolt & Nut**

* BSP Parallel Female Threaded

SIZE D(mm) x G(inch)	STANDARD PACK		
	NO BOLT & NUTS	NOS / BAG	NOS / CARTON
25 mm x 1/2"	2	300	300
25 mm x 3/4"	2	300	300
32 mm x 3/8"	2	200	200
32 mm x 1/2"	2	200	200
32 mm x 3/4"	2	200	200
32 mm x 1"	2	200	200
40 mm x 3/8"	2	150	150
40 mm x 1/2"	2	150	150
40 mm x 3/4"	2	150	150
40 mm x 1"	2	150	150
50 mm x 3/8"	2	150	150
50 mm x 1/2"	2	150	150
50 mm x 3/4"	2	150	150
50 mm x 1"	2	150	150
63mm x 3/8"	4	100	100
63 mm x 1/2"	4	100	100
63 mm x 3/4"	4	100	100
63 mm x 1"	4	100	100
63 mm x 1 1/4"	4	100	100
75 mm x 1/2"	4	60	60
75 mm x 3/4"	4	60	60
75 mm x 1"	4	60	60
75 mm x 1 1/4"	4	60	60
75 mm x 1 1/2"	4	60	60
90mm x 3/8"	4	60	50
90 mm x 1/2"	4	60	50
90 mm x 3/4"	4	60	50
90 mm x 1"	4	60	50
90 mm x 1 1/4"	4	60	50
90 mm x 1 1/2"	4	60	50
90 mm x 2"	4	60	50
110 mm x 3/8"	4	30	40
110 mm x 1/2"	4	30	40
110 mm x 3/4"	4	30	40
110 mm x 1"	4	30	40
110 mm x 1 1/4"	4	30	40
110 mm x 1 1/2"	4	30	40
110 mm x 2"	4	30	40
125 mm x 3/8"	4	25	30
125 mm x 1/2"	4	25	30
125 mm x 3/4"	4	25	30
125 mm x 1"	4	25	30
125 mm x 1 1/4"	4	25	30
125 mm x 1 1/2"	4	25	30
125 mm x 2"	4	25	30

SIZE D(mm) x G(inch)	STANDARD PACK		
	NO BOLT & NUTS	NOS / BAG	NOS / CARTON
140 mm x 3/8"	6	20	20
140 mm x 1/2"	6	20	20
140 mm x 3/4"	6	20	20
140 mm x 1"	6	20	20
140 mm x 1 1/4"	6	20	20
140 mm x 1 1/2"	6	20	20
140 mm x 2"	6	20	20
160 mm x 3/8"	6	15	20
160 mm x 1/2"	6	15	20
160 mm x 3/4"	6	15	20
160 mm x 1"	6	15	20
160 mm x 1 1/4"	6	15	20
160 mm x 1 1/2"	6	15	20
160 mm x 2"	6	15	20
180 mm x 3/8"	6	12	12
180 mm x 1/2"	6	12	12
180 mm x 3/4"	6	12	12
180 mm x 1"	6	12	12
180 mm x 1 1/4"	6	12	12
180 mm x 1 1/2"	6	12	12
180 mm x 2"	6	12	12
200 mm x 3/4"	6	8	8
200 mm x 1"	6	8	8
200 mm x 1 1/4"	6	8	8
200 mm x 1 1/2"	6	8	8
200 mm x 2"	6	8	8
200 mm x 3"	6	8	8
225 mm x 3/8"	6	8	8
225 mm x 1/2"	6	8	8
225 mm x 3/4"	6	8	8
225 mm x 1"	6	8	8
225 mm x 1 1/4"	6	8	8
225 mm x 1 1/2"	6	8	8
225 mm x 2"	6	8	8
225 mm x 3"	6	8	8
250 mm x 3/4"	8	4	4
250 mm x 1"	8	4	4
250 mm x 1 1/2"	8	4	4
250 mm x 2"	8	4	4
250 mm x 3"	8	4	4

* NPT Thread & Stainless Steel Bolt & Nut upon request.

* 25 -63mm : Rubber O'Ring

* 75-250mm : Rubber Gasket and Reinforced Stainless Steel Ring Cap
(except 3/8" no Stainless Steel Ring Cap)

* Without Ring Cap version upon request.

PP DOUBLE OUTLET SADDLE

[Mechanical Type] with reinforced ring or Rubber O' ring /Gasket

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D.O.S.

Double Outlet Saddle (D.O.S.)
(Galvanised) Bolt & Nut

SIZE D(mm) x G(inch)	ANY COMBINATION
25 mm x 1/2"	1/2" , 3/4"
25 mm x 3/4"	
32 mm x 3/8"	3/8" , 1/2" , 3/4" , 1"
32 mm x 1/2"	
32 mm x 3/4"	
32 mm x 1"	
40 mm x 1/2"	1/2" , 3/4" , 1"
40 mm x 3/4"	
40 mm x 1"	
50 mm x 3/8"	3/8" , 1/2" , 3/4" , 1"
50 mm x 1/2"	
50 mm x 3/4"	
50 mm x 1"	
63mm x 3/8"	
63 mm x 1/2"	3/8" , 1/2" , 3/4" , 1" , 1 1/4"
63 mm x 3/4"	
63 mm x 1"	
63 mm x 1 1/4"	
75 mm x 1/2"	1/2" , 3/4" , 1" , 1 1/4" , 1 1/2"
75 mm x 3/4"	
75 mm x 1"	
75 mm x 1 1/4"	
75 mm x 1 1/2"	
90mm x 3/8"	
90 mm x 1/2"	3/8" , 1/2" , 3/4" , 1" , 1 1/4" , 1 1/2" , 2"
90 mm x 3/4"	
90 mm x 1"	
90 mm x 1 1/4"	
90 mm x 1 1/2"	
90 mm x 2"	3/8" , 1/2" , 3/4" , 1" , 1 1/4" , 1 1/2" , 2"
110 mm x 3/8"	
110 mm x 1/2"	
110 mm x 3/4"	
110 mm x 1"	
110 mm x 1 1/4"	
110 mm x 1 1/2"	3/8" , 1" , 1 1/2" , 2" , 3"
110 mm x 2"	
125 mm x 3/8"	
125 mm x 1/2"	
125 mm x 3/4"	
125 mm x 1"	3/8" , 1/2" , 3/4" , 1" , 2"
125 mm x 1 1/4"	
125 mm x 1 1/2"	
125 mm x 2"	

SIZE D(mm) x G(inch)	ANY COMBINATION
140 mm x 3/8"	3/8" , 1/2" , 3/4" , 1" , 1 1/4" , 1 1/2" , 2"
140 mm x 1/2"	
140 mm x 3/4"	
140 mm x 1"	
140 mm x 1 1/4"	
140 mm x 1 1/2"	
140 mm x 2"	3/8" , 1/2" , 3/4" , 1" , 1 1/4" , 1 1/2" , 2"
160 mm x 3/8"	
160 mm x 1/2"	
160 mm x 3/4"	
160 mm x 1"	
160 mm x 1 1/4"	3/8" , 1/2" , 3/4" , 1" , 1 1/4" , 1 1/2" , 2"
160 mm x 1 1/2"	
160 mm x 2"	
180 mm x 3/8"	
180 mm x 1/2"	3/8" , 1/2" , 3/4" , 1" , 1 1/4" , 1 1/2" , 2"
180 mm x 3/4"	
180 mm x 1"	
180 mm x 1 1/4"	
180 mm x 1 1/2"	
180 mm x 2"	3/4" , 1" , 1 1/4" , 1 1/2" , 2" , 3"
200 mm x 3/4"	
200 mm x 1"	
200 mm x 1 1/4"	
200 mm x 1 1/2"	
200 mm x 2"	3/8" , 1/2" , 3/4" , 1" , 1 1/4" , 1 1/2" , 2" , 3"
200 mm x 3"	
225 mm x 3/8"	
225 mm x 1/2"	
225 mm x 3/4"	
225 mm x 1"	3/8" , 1" , 1 1/2" , 2" , 3"
225 mm x 1 1/4"	
225 mm x 1 1/2"	
225 mm x 2"	
225 mm x 3"	3/8" , 1" , 1 1/2" , 2" , 3"
250 mm x 3/4"	
250 mm x 1"	
250 mm x 1 1/2"	
250 mm x 2"	3"
250 mm x 3"	

* BSP Parallel Female Threaded

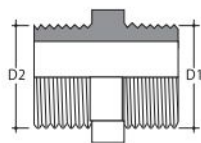
* NPT Thread & Stainless Steel Bolt & Nut upon request.

* 25 -63mm : Rubber O'Ring

* 75-250mm : Rubber Gasket and Reinforced Stainless Steel Ring Cap
(except 3/8" no Stainless Steel Ring Cap)

PP THREADED FITTINGS

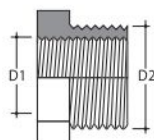
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Nipple & R.Nipple

SIZE D1 (inch) x D2 (inch)	STANDARD PACK	
	NOS / SMALL BAG	NOS / STANDARD BAG
3/8" X 3/8"	500	5000
1/2" X 1/2"	200	2000
3/4" X 1/2"	200	1200
3/4" X 3/4"	200	1200
1" X 3/4"	100	600
1" X 1"	100	600

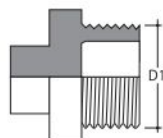
SIZE D1 (inch) x D2 (inch)	STANDARD PACK	
	NOS / SMALL BAG	NOS / STANDARD BAG
1 1/2" X 1"	100	300
1 1/2" X 1 1/2"	100	300
2" X 1 1/2"	50	200
2" X 2"	50	200
3" X 3"	60	120
4" X 4"	46	92



Bush

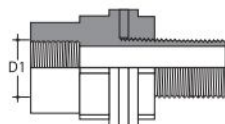
SIZE D1 (inch) x D2 (inch)	STANDARD PACK	
	NOS / SMALL BAG	NOS / STANDARD BAG
1/2" X 3/8"	200	2000
3/4" X 1/2"	200	2000
1" X 1/2"	200	1200
1" X 3/4"	200	1200
1 1/4" X 3/4"	200	1200

SIZE D1 (inch) x D2 (inch)	STANDARD PACK	
	NOS / SMALL BAG	NOS / STANDARD BAG
1 1/4" X 1"	200	1200
1 1/3" X 1"	150	600
1 1/2" X 1"	150	600
2" X 1"	100	300
2" X 1 1/2"	100	300



Plug

SIZE D1 (inch)	STANDARD PACK	
	NOS / SMALL BAG	NOS / STANDARD BAG
3/8"	500	5000
3/4"	500	5000



Tank Connector

- * Come With Reinforced Stainless Steel Ring Cap
- * BSP Threaded (suitable for all water tank)
- * Heavy duty performance

SIZE D1 (inch)	NOS / SMALL BAG	NOS / STANDARD BAG	NOS / CARTON
1/2"	100	400	400
3/4"	50	300	300
* 1"	40	120	120
* 1 1/4"	20	100	80
* 1 1/2"	20	80	60
* 2"	10	50	40
* 3"	5	20	20