

POLYSTOPP®

Quick Connect System

Size: 4-inch to 8-inch, DN90 to DN250



T.D. Williamson
 Bulletin No: **2020.004.09**
 Version: 11.2021
 Supersedes: 2020.004.08 (10.2021)



Universal Valve



P-101 Tapping Machine



Branching Fitting



Plugging Fitting

Description

With its revolutionary connection design, the POLYSTOPP Quick Connect System makes it easy to safely perform tapping, plugging and branching applications on polyethylene (PE) pipelines—and to do it faster and requiring significantly less excavation space than squeezing or other means of line stopping. The system is lightweight and easy to use. Only one technician is required to complete an isolation.

The POLYSTOPP System can isolate PE pipes ranging from 4-inch to 8-inch (DN90 to DN250), covers multiple different SDR's and is rated up to 150 psi (10bar).

Features

- Tapping machine designed with two feed rates to increase speed of overall tapping procedure: a fast feed for lowering and raising the cutter, and a slow feed for cutting through the pipe
- Pressure balanced machines eliminate resistance during operation.
- Bar locking feature increases safety.
- Cutter is designed to capture shavings, creating a clean plugging surface inside the pipe.
- Design allows for installing machines onto valve in seconds

Specifications

- For PE pipelines 4-inch to 8-inch (DN90 to DN250).
- Pressure rating 150 psi (10bar).
- Covers multiple standard dimension ratios.
- 2-inch bypass capable.

Common Applications

- Tapping, plugging, completion and branching capability on PE pipe.



POLYSTOPP Quick Connect System

POLYSTOPP Quick Connect Universal Valve*

Size		Weight		Part Number
Inches	DN	Lbs.	Kg.	
4 to 8	90 to 250	48.5	22.8	75.1537.0100.0400.00

Ground Strap Kit

				Part Number
Safety Requirement for ALL Valve Use				08.3405.0010.00

Clamps (required for 8" application)*

Size		Weight		Part Number
Inches	DN	Lbs.	Kg.	
8	225 to 250	13.2	6	75.1537.0225.0225.00

* for use with Universal Valve. Requires Qty 2.

Universal Valve Calibration Rings

Size		Weight		Part Number
Nom/DN		Lbs.	Kg.	
4inch		2.2	1	75.1537.0219.0000.02
6inch		1.1	.5	75.1537.0219.0000.03
8inch		2	.9	75.1537.0219.0220.00
DN90		2.6	1.2	75.1537.0219.0090.00
DN110		2.2	1	75.1537.0219.0110.00
DN125		2.0	.9	75.1537.0219.0125.00
DN160		1.5	.7	75.1537.0219.0160.00
DN180		1.1	.5	75.1537.0219.0180.00
DN225		2	.9	75.1537.0219.0225.00

Valve to Fitting Adapter

Size		Length		Weight		Part Number
Nom/DN	MWP	Inches	mm	Lbs.	Kg.	
DN90	10bar	7.05	170	6.2	2.8	75.1537.0214.0090.00
4inch, DN110 to 125	150psi to 10bar	7.42	188.5	5.7	2.6	75.1537.0214.0110.00
6inch, DN160 to 200	150psi to 10bar	5.42	137.5	4.2	1.9	75.1537.0214.0160.00
8inch, DN225	150psi to 10bar					75.1537.0214.0225.00
DN250	10bar					75.1537.0214.0250.00



POLYSTOPP Quick Connect System

Branching Fittings

Size		Weight		Part Number
NOM/DN	MWP	Lbs.	Kg.	
4inch	150psi	7.7	3.5	72.5537.0100.0004.10
6inch	150psi	13.0	5.9	72.5537.0100.0006.10
8inch	150psi	16.5	7.5	72.5537.0100.0008.10
DN110	10bar	6.2	2.8	72.5537.0100.0110.10
DN125	10bar	6.2	2.8	72.5537.0100.0125.10
DN160	10bar	9.0	4.1	72.5537.0100.0160.10
DN180	10bar	9.0	4.1	72.5537.0100.0180.10
DN200	10bar	11.2	5.5	72.5537.0100.0200.10
DN225	10bar	16.5	7.5	72.5537.0100.0225.10
DN250	10bar	7.5	7.5	72.5537.0100.0250.10

Plugging Fittings

Size		Weight		Part Number
NOM/DN	MWP	Lbs.	Kg.	
4inch	150psi	6.8	3.1	72.5537.0100.0004.00
6inch	150psi	11.2	5.1	72.5537.0100.0006.00
8inch		15.5	7	72.5537.0100.0008.00
DN90	10bar	4.4	2	72.5537.0100.0090.00
DN110	10bar	5.5	2.5	72.5537.0100.0110.00
DN125	10bar	5.5	2.5	72.5537.0100.0125.00
DN160	10bar	8.4	3.8	72.5537.0100.0160.00
DN180	10bar	8.4	3.8	72.5537.0100.0180.00
DN200	10bar	10.6	4.8	72.5537.0100.0200.00
DN225	10bar	15.5	7	72.5537.0100.0225.00
DN250	10bar	22.1	10	72.5537.0100.0250.00

Fitting Test Cap

Size		Weight		Part Number
Nom/DN	MWP	Lbs.	Kg.	
DN90	10bar	1.8	.8	72.5537.0219.0050.00
4inch, DN110 to 125	150psi, 10bar	3.3	1.5	72.5537.0219.0110.00
6-8inch, DN160 to 250	150psi, 10bar	3.8	1.7	72.5537.0219.0160.00



POLYSTOPP Quick Connect System

P-101 Tapping Machine

Size		Weight		Overall Length	Total	Travel		Part Number
NOM/DN	Application	Lbs.	Kg.			Fast	Working	
4 in to 6 in	Plugging and Branching	26.5	12.6	61	19.77	16.27	3.50	75.2090.0100.0300.00
8 in	Plugging	26.5	12.6	61	19.77	16.27	3.50	75.2090.0100.0300.00
90DN to 200DN	Plugging and Branching	26.5	12.6	61	19.77	16.27	3.50	75.2090.0100.0300.00
225DN to 250DN	Plugging	26.5	12.6	61	19.77	16.27	3.50	75.2090.0100.0300.00

P-101 XL Tapping Machine

Size		Weight		Overall Length	Total	Travel		Part Number
NOM/DN	Application	Lbs.	Kg.			Fast	Working	
4 in to 8 in	Plugging and Branching	33.1	15	72.50	25.50	22.00	3.50	75.2090.0100.0300.50
90DN to 250DN	Plugging and Branching	33.1	15	72.50	25.50	22.00	3.50	75.2090.0100.0300.50

Tapping Cutter

Size		Weight		Part Number
Nom/DN		Lbs.	Kg.	
DN90		2.6	1.2	75.3090.0222.0055.20
4inch, DN110 to 125		3.5	1.6	75.3090.0222.0071.20
6inch		4.9	2.2	75.3090.0222.0093.20
DN160		4.6	2.1	75.3090.0222.0090.20
DN180		4.9	2.2	75.3090.0222.0093.20
8inch, DN225 to 250		4.4	2.0	75.3090.0222.0099.20

Holder/Pilot

Size		Weight		Part Number
Nom/DN		Lbs.	Kg.	
DN90		1.5	.7	75.3090.0222.0090.10
4inch, DN110 to 125		1.8	.8	75.3090.0222.0110.10
6-8inch, DN160 to 250		2.6	1.2	75.3090.0222.0160.10

Tapping Cutter - Bottom Out

Size		Weight		Part Number
Nom/DN		Lbs.	Kg.	
4inch, DN110 to 125		2.6	1.2	75.3090.0222.0061.20
6-8inch, DN160 to 250		3.7	1.7	75.3090.0222.0080.20

Holder/Pilot- Bottom Out

Size		Weight		Part Number
Nom/DN		Lbs.	Kg.	
4inch, DN110 to 125		2.0	.9	75.3090.0222.0110.15
6-8inch, DN160 to 250		2.9	1.3	75.3090.0222.0160.15



POLYSTOPP Quick Connect System

POLYSTOPP Quick Connect Plugging Machine

Size		Weight		Part Number
Inches	DN	Lbs.	Kg.	
3.5	90	35.3	16.6	75.0537.0100.0090.50
4 to 6	110 to 200	37.5	17.9	75.0537.0100.0200.50
8	225 to 250	51	23	75.0537.0100.0310.00

Adapter Plate (required for 6" isolation)

Size		Weight		Part Number
Nom/DN	MWP	Lbs.	Kg.	
6inch, DN110 to 160	150psi/10bar	.8	.4	75.0537.0234.0160.00
DN180	10bar	1.8	.8	75.0537.0225.0180.00
DN200	10bar	2.2	1.0	75.0537.0234.0200.00

Bottom Out Plugger

Size		Weight		Part Number
Nom/DN	MWP	Lbs.	Kg.	
4inch, DN110 to 125	150psi to 10bar	4.4	2.0	75.2090.0234.0100.00
6-8inch, DN160 to 250	150psi to 10bar	6.8	3.1	75.2090.0234.0200.00

Nose Piece - SDR-11

Size		Weight		Part Number
NOM/DN	MWP	Lbs.	Kg.	
4inch	150psi	.3	.14	71.5537.0234.0114.15
6inch	150psi	.7	.32	71.5537.0234.0168.15
DN90	10bar	.18	.08	71.5537.0234.0090.15
DN110	10bar	.26	.12	71.5537.0234.0110.15
DN125	10bar	.34	.16	71.5537.0234.0125.15
DN160	10bar	.66	.30	71.5537.0234.0160.15
DN180	10bar	.88	.40	71.5537.0234.0180.15
DN200	10bar	1.04	.48	71.5537.0234.0200.15



POLYSTOPP Quick Connect System

Nose Piece - SDR-13.5

Size		Weight		Part Number
NOM/DN	MWP	Lbs.	Kg.	
4inch	150psi	.30	.14	71.5537.0234.0110.16
6inch	150psi	.88	.40	71.5537.0234.0160.16

Nose Piece - SDR-17

Size		Weight		Part Number
NOM/DN	MWP	Lbs.	Kg.	
4inch	150psi	.34	.16	71.5537.0234.0114.16
6inch	150psi	.88	.40	71.5537.0234.0168.16
DN90	10bar	.22	.10	71.5537.0234.0090.20
DN110	10bar	.30	.14	71.5537.0234.0110.16
DN125	10bar	.44	.20	71.5537.0234.0125.16
DN160	10bar	.88	.40	71.5537.0234.0160.16
DN180	10bar	1.20	.54	71.5537.0234.0180.16
DN200	10bar	1.50	.68	71.5537.0234.0200.17

Sealing Element - SDR-11

Size		Weight		Part Number
NOM/DN	MWP	Lbs.	Kg.	
4inch	150psi	.24	.11	71.5537.0234.0114.10
6inch	150psi	.51	.23	71.5537.0234.0168.10
8inch	150psi	.57	.26	71.5537.0234.0008.16
DN90	10bar	.11	.05	71.5537.0234.0090.10
DN110	10bar	.22	.10	71.5537.0234.0110.10
DN125	10bar	.30	.14	71.5537.0234.0125.10
DN160	10bar	.50	.24	71.5537.0234.0160.10
DN180	10bar	.60	.27	71.5537.0234.0180.10
DN200	10bar	.70	.32	71.5537.0234.0200.10
DN225	10bar	.51	.23	71.5537.0234.0225.16
DN250	10bar	.55	.25	71.5537.0234.0250.16

Sealing Element - SDR-13.5

Size		Weight		Part Number
NOM/DN	MWP	Lbs.	Kg.	
4inch	150psi	.23	.12	71.5537.0234.0110.11
6inch	150psi	.66	.30	71.5537.0234.0160.11
8inch	150psi	.55	.25	71.5537.0234.0225.16



POLYSTOPP Quick Connect System

Sealing Element - SDR-17

Size		Weight		Part Number
NOM/DN	MWP	Lbs.	Kg.	
4inch	150psi	.26	.12	71.5537.0234.0114.11
6inch	150psi	.70	.32	71.5537.0234.0168.11
8inch	150psi	.55	.25	75.5537.0234.0008.12
DN90	10bar	.13	.06	71.5537.0234.0090.11
DN110	10bar	.26	.12	71.5537.0234.0110.11
DN125	10bar	.37	.17	71.5537.0234.0125.11
DN160	10bar	.66	.30	71.5537.0234.0160.11
DN180	10bar	.72	.33	71.5537.0234.0180.11
DN200	10bar	.90	.41	71.5537.0234.0200.11
DN225	10bar	.55	.25	75.5537.0234.0225.12
DN250	10bar	.62	.28	75.5537.0234.0250.12

POLYSTOPP Quick Connect Completion Machine

Size		Weight		Part Number
Inches	DN	Lbs.	Kg.	
4 to 8	90 to 250	22	10.4	75.0537.0100.0450.00

Optional Accessories and Equipment

Part Name/Description	Size	Part Number
Air Motor		75.2501.0323.0000.00
Air Motor Socket		75.2090.0328.0000.00
Express Coupling		70.9912.1010.1217.00
Oiler		75.1060.0217.0002.00
Air Hose		75.2501.0211.0000.00
Coupon Remover	4inch, DN110 to 125	75.0530.0100.0110.00
Coupon Remover	6-8inch, DN160 to 250	75.0530.0100.0160.00
Quick Connect Tapping/Completion Machine Premium Box		75.0537.0207.0100.20
Quick Connect Valve Premium Box		75.1537.0207.0100.00
Quick Connect 4"/6" Plugging Machine Premium Box*		75.0537.0207.0100.10
Quick Connect 8" Plugging Machine Premium Box		75.0537.0207.0100.00

*Can accommodate two (2) plugging machines



POLYSTOPP Quick Connect System

Maintenance Kits

Part Name/Description	Part Number
Universal Valve Maintenance Kit	78.1510.9400.0000.00
Tapping Machine Maintenance Kit	78.1510.9400.4000.00
Plugging Machine Maintenance Kit	78.1510.9200.0000.10
Completion Machine Maintenance Kit	78.1510.9400.6000.00