

POLYSTOPP®

Quick Connect System

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



T.D. Williamson

Bulletin No: 2020.004.11

Version: 04.2023

Supersedes: 2020.004.10 (04.2022)



Universal Valve



P-101 Tapping Machine
P-101 XL 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- 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- to 8-inch (DN90 to DN250).
- Pressure rating up to 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" / DN225 & DN250 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	MWP	Length		Weight		Part Number
		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	150psi	9.02	229	1.4	3.2	75.1537.0214.0008.00
DN225	10bar	9.61	224	1.4	3.2	75.1537.0214.0225.00
DN250	10bar	8.31	211	1.3	2.8	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	24.3	11.0	72.5537.0100.0250.10*

* Bottom Drilling only with P-101 XL Tapping Machine

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	150psi	15.5	7.0	72.5537.0100.0008.00
DN90	10bar	4.4	2.0	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	7.0	72.5537.0100.0225.00
DN250	10bar	22.1	10.0	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		Travel				
NOM/DN	Application	Lbs.	Kg.	Overall Length	Total	Fast	Working	Part Number
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
DN90 to DN200	Plugging and Branching	26.5	12.6	61	19.77	16.27	3.50	75.2090.0100.0300.00
DN225 to DN250	Plugging	26.5	12.6	61	19.77	16.27	3.50	75.2090.0100.0300.00

P-101 XL Tapping Machine

Size		Weight		Travel				
NOM/DN	Application	Lbs.	Kg.	Overall Length	Total	Fast	Working	Part Number
4 in to 8 in	Plugging and Branching	33.1	15	72.50	25.50	22.00	3.50	75.2090.0100.0300.50
DN90 to DN250	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, DN200 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	52.91	24	75.0537.0100.0310.00

Adapter Plate (required for 6" isolation)

Size		Weight		Part Number
Nom/DN	MWP	Lbs.	Kg.	
6inch, DN160	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

8inch/DN225/DN250 Plugging Head Assembly (required for 8" application)*

Size			Weight		Part Number
Nom/DN	MWP	SDR	Lbs.	Kg.	
8inch	125psi	11	15.0	6.8	75.0537.0234.0008.11
8inch	125psi	13.5	15.5	7.0	75.0537.0234.0225.11
8inch	125psi	17/17.6	16.1	7.3	75.0537.0234.0008.17
DN225	10bar	11	15.5	7.0	75.0537.0234.0225.11
DN225	10bar	17/17.6	16.3	7.4	75.0537.0234.0225.17
DN250	10bar	9	16.1	7.3	75.0537.0234.0008.17
DN250	10bar	11	16.8	7.6	75.0537.0234.0250.11
DN250	7bar	17/17.6	17.3	7.8	75.0537.0234.0250.17

*Plugging head assembly consists of plugging head body and yoke.

8inch/DN225/DN250 Plugging Head Body

Size			Weight		Part Number
Nom/DN	MWP	SDR	Lbs.	Kg.	
8inch	125psi	11/13.5/17/17.6	8.0	3.6	75.0537.0234.0225.02
DN225/250	10bar	11	7.7	3.5	75.0537.0234.0225.02
DN250	7bar	17	7.0	3.2	75.0537.0234.0250.02

8inch/DN225/DN250 Plugging Head Yoke

Size			Weight		Part Number
Nom/DN	MWP	SDR	Lbs.	Kg.	
8inch	125psi	11	7.0	3.1	75.0537.0234.0008.01
8inch	125psi	13	8.0	3.6	75.0537.0234.0225.01
8inch	125psi	17	8.0	3.6	75.0537.0234.0008.07
DN225	10bar	11	7.7	3.5	75.0537.0234.0225.01
DN225	10bar	17	8.5	3.9	75.0537.0234.0225.07
DN250	10bar	11	9.0	4.1	75.0537.0234.0250.01
DN250	7bar	17	13.2	4.6	75.0537.0234.0250.07



POLYSTOPP Quick Connect System

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

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



POLYSTOPP Quick Connect System

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	125psi	.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	71.5537.0334.0225.12

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

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	125psi	.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	7bar	.62	.28	75.5537.0234.0250.12

8"/DN225/DN250 Sealing Element Kit*

Size		
NOM/DN	MWP	Part Number
8inch, SDR11	125psi	71.5537.0228.0008.16
8inch, SDR17/DN250, SDR9	125psi/10bar	71.5537.0228.0008.12
8inch, SDR13.5/DN225, SDR11	125psi/10bar	71.5537.0228.0225.16
DN225, SDR17	10bar	71.5537.0228.0225.12
DN250, SDR11	10bar	71.5537.0228.0250.16

*Kit includes Sealing Element (1), O-Ring for Yoke (2), Clamps (2), Hook- Left and Right (1)



POLYSTOPP Quick Connect System

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
Screwdriver Kit for Yoke 8inch/DN225/DN250		75.0537.0100.0250.55
Clamping Tool Kit 8inch/DN225/DN250		75.0537.0100.0250.65
Clamp Adapter 8inch/DN225/DN250		75.0537.0306.0250.66

*Can accommodate two (2) plugging machines

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 (DN90 to DN200)	78.1510.9200.0000.10
Plugging Machine Maintenance Kit (DN225/DN250/8-inch)	78.1510.9400.3000.00
Completion Machine Maintenance Kit	78.1510.9400.6000.00