

# HYPRO® ProFlo

Nozzle Bodies with Superior Durability and High Flow Rates



# HYPRO® ProFlo



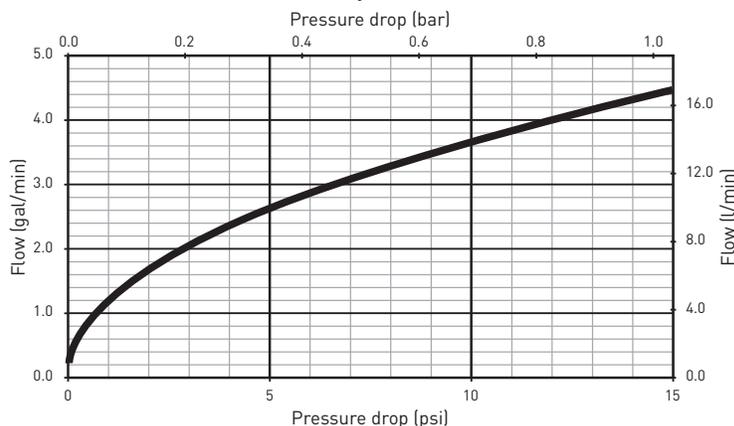
## FEATURES

- Three turret styles for an easy change of spray tips: single, 3-way, and 5-way
- Provides lowest pressure drop at any given flow in the industry
- 2.6 gpm (9.84 lpm) with a 5 psi (0.34 bar) pressure drop
- Available in wet or dry boom versions
- Positive shutoff between each spray position
- Custom logos available upon request (minimum quantities apply)

## BENEFITS

- Designed to deliver the highest flow rates across the spraying pressure range
  - Unique DCV (diaphragm check valve) design reduces restrictions in the flow path, enabling 2.6 gpm (9.8 lpm) with a 5 psi (0.34 bar) pressure drop through the nozzle
  - Supports faster field speeds with the same coverage and supports direct fertilizer application through the nozzle body DCV flow path
- Turret-indexing design provides improved consistency and reliability throughout the life of the nozzle body - eliminating free spinning and seizing problems seen on competitive nozzle bodies
- Bayonet style attachment allows for automatic spray alignment using flat fan spray tips
- Compact design makes mounting easier with less potential interference with the spray boom structure
- ProFlo nozzle bodies come standard with an 8 psi (.55 bar) diaphragm check valve. 4 psi (.27 bar), 12 psi (.82 bar), 20 psi (1.37 bar), and 25 psi (1.72 bar) DCVs are available as options

**ProFlo Nozzle Body Performance Curve**



# Wet Boom Nozzle Bodies



## 3 & 5-Way Nozzle Bodies (no tab for boom clamp)

Seal Option/ Housing Reference	Turret Options	(to clamp on) Pipe Size				
		1/2"	3/4"	1"	20mm	25mm
EPDM/Red	3	4223N-B322	4223N-B323	4223N-B324	4223N-B327	4223N-B328
	5	4223N-B522	4223N-B523	4223N-B524	4223N-B527	4223N-B528
Viton/Green	3	4223N-B322V	4223N-B323V	4223N-B324V	4223N-B327V	4223N-B328V
	5	4223N-B522V	4223N-B523V	4223N-B524V	4223N-B527V	4223N-B528V

Sold in Quantities of 100; Sold as single units through HYPRO-EU only (Cambridge, UK)  
For Individual Bags, Add Suffix -00 (i.e.: 4223N-B322-00)



## 3 & 5-Way Nozzle Bodies with Tab for Boom Clamp

Seal Option/ Housing Reference	Turret Options	(to clamp on) Pipe Size				
		1/2"	3/4"	1"	20mm	25mm
EPDM/Red	3	4243N-B322	4243N-B323	4243N-B324	4243N-B327	4243N-B328
	5	4243N-B522	4243N-B523	4243N-B524	4243N-B527	4243N-B528
Viton/Green	3	4243N-B322V	4243N-B323V	4243N-B324V	4243N-B327V	4243N-B328V
	5	4243N-B522V	4243N-B523V	4243N-B524V	4243N-B527V	4243N-B528V

Sold in Quantities of 100; Sold as single units through HYPRO-EU only (Cambridge, UK)  
For Individual Bags, Add Suffix -00 (i.e.: 4243N-B322-00)



## Triple Nozzle Bodies for Wet Boom

Seal Option/ Housing Reference	Part Number	Description
EPDM/Red	4222N-B322	1/2" split clamp
	4222N-B323	3/4" split clamp
	4222N-B324	1" split clamp



## Single Drop Nozzle Body for Wet Boom

Seal Option/ Housing Reference	(to clamp on) Pipe Size				
	1/2"	3/4"	1"	20mm	25mm
EPDM/Red	4221N-B122	4221N-B123	4221N-B124	4221N-B127	4221N-B128
Viton/Green	4221N-B122V	4221N-B123V	4221N-B124V	4221N-B127V	4221N-B128V

Acid resistant polypropylene available with 1" clamp and EPDM Seal, part number: 402265P  
1/4" FNPT Outlet- Substitute B with F (i.e.: 4221N-F122)  
Sold in Quantities of 300; Sold as single units through HYPRO-EU only (Cambridge, UK)  
For Individual Bags, Add Suffix -00 (i.e.: 4221N-B122-00)



## Wet Boom Single Nozzle Bodies-No Diaphragm Check Valve

Single hose barb P/N	Hose ID
4201N-B102	1/2" Clamp
4201N-B103	3/4" Clamp
4201N-B104	1" Clamp

Add Suffix "-00" for 1 part per retail bag

# Dry Boom Nozzle Bodies



## 3 & 5-way Nozzle Bodies with Tab for Boom Clamp and Hose Barb for Dry Boom

Seal Option/ Housing Reference	Turret Options	3/4" (19 mm)	3/4" (19 mm)	1" (25 mm)	1" (25 mm)
		Single Ended HB	Double Ended HB	Single Ended HB	Double Ended HB
EPDM/Red	3	4263N-B323S	4263N-B323D	4263N-B324S	4263N-B324D
	5	4263N-B523S	4263N-B523D	4263N-B524S	4263N-B524D
Viton/Green	3	4263N-B323SV	4263N-B323DV	4263N-B324SV	4263N-B324DV
	5	4263N-B523SV	4263N-B523DV	4263N-B524SV	4263N-B524DV

Sold in Quantities of 100

For Individual Bags, Add Suffix -00 (i.e.: 4263N-B323S-00)



## Hose Barb Triple Nozzle Bodies-with DCV

Seal Options/ Housing Reference	Single hose barb P/N	Double hose barb P/N	Triple hose barb P/N	Hose ID	
				US Units	Metric Units
EPDM/Red	4242N-B322S	4242N-B322D	4242N-B322T	1/2"	13 mm
	4242N-B323S	4242N-B323D	4242N-B323T	3/4"	19 mm

4242N-B300 -Provides 1/4" MNPT Inlet



## Hose Barb Dry Boom Nozzle Bodies-with DCV

Seal Options/ Housing Reference	Single hose barb P/N	Double hose barb P/N	Triple hose barb P/N	Hose ID	
				US Units	Metric Units
EPDM/Red	4241N-B121S	4241N-B121D	4241N-B121T	3/8"	10 mm
	4241N-B122S	4241N-B122D	4241N-B122T	1/2"	13 mm
	4241N-B123S	4241N-B123D	4241N-B123T	3/4"	19 mm

Add Prefix "BG-" for 1 part per retail bag



## Hose Barb Dry Boom Nozzle Bodies-with Top-Mounted DCV

Seal Options/ Housing Reference	Single hose barb P/N	Double hose barb P/N	Hose ID	
			US Units	Metric Units
EPDM/Red	4240N-B121S	4240N-B121D	3/8"	10 mm
	4240N-B122S	4240N-B122D	1/2"	13 mm
	4240N-B123S	4240N-B123D	3/4"	19 mm

Add Prefix "BG-" for 1 part per retail bag



## Single Nozzle Bodies with DCV

Seal Options/ Housing Reference	1/4" MNPT x 1/4" FNPT			1/4" MNPT x Bayonet		11/16" UNF x Bayonet	3/8" (10 mm) HB x Bayonet
	4 PSI (.28 BAR)	8 PSI (.55 BAR)	25 PSI (1.72 BAR)	4 PSI (.28 BAR)	8 PSI (.55 BAR)	8 PSI (.55 BAR)	8 PSI (.55 BAR)
EPDM/Red	4240N-F110	4240N-F120	4240N-F150	4240N-B010	4240N-B020	4241N-B120U	QT14-1-NDC
Viton/Green	4240N-F110V	4240N-F120V	4240N-F150V	4240N-B010V	4240N-B020V	-	-

## Hose Barb Dry Boom Nozzle Bodies-No DCV

Single hose barb P/N	Double hose barb P/N	Triple hose barb P/N	Hose ID	
			US Units	Metric Units
4231N-B101S	4231N-B101D	4231N-B101T	3/8"	10 mm
4231N-B102S	4231N-B102D	4231N-B102T	1/2"	13 mm
4231N-B103S	4231N-B103D	4231N-B103T	3/4"	19 mm



# Accessories & Parts

## Hose Barb Dry Boom Nozzle Bodies-No DCV



Part Number	Type	Clamp Size	Hose Barb	
			US Units	Metric Units
4200-0111N	Single	1/2" Pipe	1/2"	13 mm
4200-0112N	Single	3/4" Pipe	3/4"	19 mm
4200-0113N	Single	3/4" Pipe	1"	25 mm
4200-0114N	Single	1" Pipe	3/4"	19 mm
4200-0115N	Single	1" Pipe	1"	25 mm
4200-0211N	Double	1/2" Pipe	1/2"	13 mm
4200-0212N	Double	3/4" Pipe	3/4"	19 mm
4200-0213N	Double	3/4" Pipe	1"	25 mm
4200-0214N	Double	1" Pipe	3/4"	19 mm
4200-0215N	Double	1" Pipe	1"	25 mm

## Replacement Check Valve (DCV) includes Flynut, Housing and Spring



Housing Reference	Spring Pressure Plunger Reference Color				
	4 PSI (.28 BAR) Orange	8 PSI (.55 BAR) Black	12 PSI (.83 BAR) Yellow	20 PSI (1.38 BAR) Gray	25 PSI (1.72 BAR) Blue
Red	4200-0010	4200-0020	4200-0030	4200-0040	4200-0050
Green	4200-0010V	4200-0020V	4200-0030V	4200-0040V	4200-0050V

Red housing indicates for use with EPDM Seals. Green housing indicates for use with Viton Seals.  
Note: Diaphragms are sold separately

## Replacement Diaphragm Seal Options for check valves



Option	Part Number	Color Reference
EPDM	4200-0004E	Black
Viton®	4200-0004V	Green

## Replacement Seal/O-ring Kit ProFlo Body



Part Number	Description/Material
3430-0754	Contains all internal seals/EPDM
3430-0754V	Contains all internal seals/Viton®

## Replacement Nozzle Body Stem Seals



Part Number	Description/Material
1723-0142	10 mm Wet Boom Stem Seal-EPDM
1721-0220	10 mm Wet Boom Stem Seal-Viton

## Screw, Nut & Stem O-ring Kit



Part Number	Description/Material
3430-0755	Contains replacement screw, nut and stem o-ring/EPDM
3430-0755V	Contains replacement screw, nut and stem o-ring/Viton

## Cobra Clip Boom Pipe Mounts



Reference Number	Part Number	Description
1	0113434307	3/4" or 25mm Nominal Boom Pipe Mount
2	0113434308	1" or 32mm Nominal Boom Pipe Mount w/Keep Strap
2	01134343010	1 1/2" or 40mm Nominal Boom Pipe Mount w/Keep Strap

## Black Polypropylene Boom Pipe (Undrilled) - Schedule 80 - 20' Sections



Part Number	Nominal Pipe Size	Pipe Length		Wall Thickness	Wall Tolerance	Outside Diameter		Max. Operating Pressure @ 73° F/22.8° C	
		US Units	Metric Units			US Units	Metric Units	PSI	BAR
8034-F-00PP	3/4"	20 ft	6.1 m	0.154	+0.020	1.050	26.7 mm	270	18.6
801-F-00PP	1"	20 ft	6.1 m	0.179	+0.021	1.315	33.4 mm	250	17.2
80112-F-00PP	1-1/2"	20 ft	6.1 m	0.220	+0.021	1.905	48.4 mm	200	13.8

## Wet Boom Blanks



Part Number	Material	Description
400059	Nylon	3/4" Pipe
400069	Nylon	1" Pipe
400059P*	Polypropylene	3/4" Pipe
400069P*	Polypropylene	1" Pipe

\* Comes standard with Viton o-ring

# Accessories



## Hose Drops

Part Number	Length		Description Outlet, Inlet
	US Units	Metric Units	
430001	15"	38.1 cm	1/4" NPT, 11/16" - 16UN(M)
430002	24"	60.9 cm	1/4" NPT, 11/16" - 16UN(M)
430201	15"	38.1 cm	1/4" NPT, Quick Attach Fitting
430202	24"	60.9 cm	1/4" NPT, Quick Attach Fitting
430201V	15"	38.1 cm	1/4" NPT, Quick Attach Fitting with Viton
430202V	24"	60.9 cm	1/4" NPT, Quick Attach Fitting with Viton



## Series 404 Swivel and Threaded-Swivel Nozzle Bodies

Part Number	Description
4200N-0020	Single Swivel 1/4" FNPT X Quick Attach
4200N-0021	Double Swivel 1/4" FNPT X 2 Quick Attach
4200N-0023	Single 1/4" FNPT X 11/16" - 16UN(M)
4200N-0024	Double 1/4" FNPT X 11/16" - 16UN(M)
4200N-0025	Red Retaining Cap 11/16" - 16UN(F)
4200N-0026	Black Retaining Cap 11/16" - 16UN(F)



## Quick Fitting Adapters

Reference #	Part #	Description	Packaging
-	4200-0015N	1/4" BSP x Quick Attach	None
1	4200-0016N	1/4" MNPT x Quick Attach	None
2	4200N-0017	45° Double Elbow w/Gasket	10/ Bag, Priced Individually
3	4200N-0018	90° Elbow x Quick Attach	10/ Bag, Priced Individually
4	4200-0019	1/4" FNPT x Quick Attach	None
5	CPV007	3/8" HB x 1/4" FNPT w/ Boom clamp	None
6	BG-400275N	1/4" FNPT x Quick Attach	1/Bag

## Vari-Spacing Clamps



Part Number	Material	Piping/Tubing O.D.
413003*	Steel	3/4" (26.7 mm) Round Pipe (1.050")
413004*	Steel	1" (33.5 mm) Round Pipe (1.315")
413005*	Steel	1-1/4" (42 mm) Round Pipe (1.660")
413013	Steel	3/4" (19 mm) Square Tubing
413014	Steel	1" (25 mm) Square Tubing
413015	Steel	1-1/4" (32 mm) Square Tubing
413016	Steel	1-1/2" (38 mm) Square Tubing
413018	304 Stainless Steel	1-1/2" (38 mm) Square Tubing

\* By pipe, dimensions refer to I.D. (inner diameter)  
Add Prefix "BG-" for 1 part per retail bag

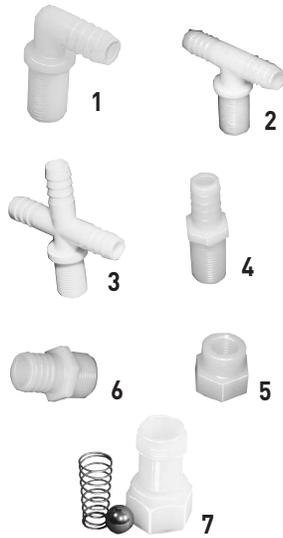
## ProFlo Dry Boom Clamps with Slot for Easy Assembly- Boxes of 100



Part Number	Material	Piping/Tubing O.D.
1520-1075	zinc plated steel	3/4" (14 mm) square tubing
1520-1100	zinc plated steel	1" (25 mm) square tubing
1520-1125	zinc plated steel	1-1/4" (32 mm) square tubing
1520-1150	zinc plated steel	1-1/2" (38 mm) square tubing
1520-1075SS	304 stainless steel	3/4" (19 mm) square tubing
1520-1100SS	304 stainless steel	1" (25 mm) square tubing
1520-1125SS	304 stainless steel	1-1/4" (32 mm) square tubing
1520-1150SS	304 stainless steel	1-1/2" (38 mm) square tubing

Add Prefix "BG-" for 1 part per retail bag

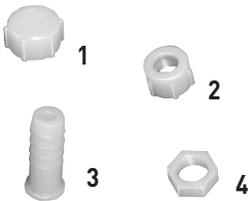
# 11/16" Accessories



## 11/16" UN Nozzle Bodies

Reference Number	Standard Pack	Description US Units	Nylon Part Number	Poly Part Number
1	25	11/16" - 16UN(M) X 1/4" (6 mm) HB Elbows	NTL14	3NNTL14
1	25	11/16" - 16UN(M) X 3/8" (10 mm) HB Elbows	NTL38	3NNTL38
1	25	11/16" - 16UN(M) X 1/2" (13 mm) HB Elbows	NTL12	3NNTL12
1	25	11/16" - 16UN(M) X 5/8" (16 mm) HB Elbows	NTL58	3NNTL58
1	25	11/16" - 16UN(M) X 3/4" (19 mm) HB Elbows	NTL34	3NNTL34
2	25	11/16" - 16UN(M) X 3/8" (10 mm) HB Tees	NTT38	3NNTT38
2	25	11/16" - 16UN(M) X 1/2" (13 mm) HB Tees	NTT12	3NNTT12
2	25	11/16" - 16UN(M) X 5/8" (16 mm) HB Tees	NTT58	3NNTT58
2	25	11/16" - 16UN(M) X 3/4" (19 mm) HB Tees	NTT34	3NNTT34
3	25	11/16" - 16UN(M) X 3/8" (10 mm) HB Crosses	T38C	3T38C
3	25	11/16" - 16UN(M) X 1/2" (13 mm) HB Crosses	T12C	3T12C
3	25	11/16" - 16UN(M) X 3/4" (19 mm) HB Crosses	T34C	3T34C
4	25	11/16" - 16UN(M) X 3/8" (10 mm) HB Nozzle Shanks Straight	38D	338D
4	25	11/16" - 16UN(M) X 1/2" (13 mm) HB Nozzle Shanks Straight	3812D	33812D
5	25	11/16" - 16UN(F) X 1/4" (6 mm) FNPT Female Spray Tip Adapter	NF1614	3NF1614
6	25	11/16" - 16UN(M) X 1/4" (6 mm) MNPT Nipples	NB1614	3NB1614
6	25	11/16" - 16UN(M) X 1/2" (16 mm) MNPT Nipples	NB1612	3NB1612
7	25	3/8" FNPT X 11/16" - 16UN(M) Ball Check Valve for nozzle fittings (10 PSI/ .69 BAR)	NBC10	-----

Includes B12/3B12 nut  
 Add Prefix "BG-" for 1 part per retail bag  
 Add Prefix "5BG-" for 5 parts per retail bag



## 11/16" UN Nozzle Body Cap and Nut

Reference Number	Standard Pack	Description	Nylon Part Number	Poly Part Number
1	25	11/16" - 16UN(F) Nozzle blank cap	3942*	33942*
2	25	11/16" - 16UN(F) Nozzle cap for tip/barb	8027*	38027*
3	25	1/4" (6 mm) HB for 8027/38027 cap	K8414	3K8414
3	25	3/8" (10 mm) HB for 8027/38027 cap	K8438	3K8438
3	25	1/2" (13 mm) HB for 8027/38027 cap	K8412	3K8412
4	25	11/16" - 16UN jamb nut	B12*	3B12*

\* Fits all nozzle fittings with 11/16" male straight thread



## Steel Boom Clamps for use with 11/16" Nozzle Bodies

Part Number	Description
BC34R*	3/4" [26.7 mm] Round Pipe
BC100R*	1" [33.4 mm] Round Pipe
BC100	1" [25 mm] Square
BC114	1-1/4" [32 mm] Square

\* Dimensions refer to I.D. (inner diameter)



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