

# Piloted Regulators

(Approximate size relationship as shown)



**IR180M**  
High Flow  
NPTF & BSPP Port Sizes:  
1, 1-1/4

INTERNALLY PILOTED



**PR11M**  
Sentry Miniature  
NPTF & BSPP Port Sizes:  
1/8, 1/4

Tube Sizes:  
4mm, 6mm, 8mm, & 10mm

EXTERNALLY PILOTED



**HPR100**  
NPTF & BSPP Port Sizes:  
1/4, 3/8, & 1/2

EXTERNALLY PILOTED



**HPR100**  
NPTF & BSPP Port Sizes:  
1/4, 3/8, & 1/2

EXTERNALLY PILOTED



**PR180M / PRH180**  
High Flow  
NPTF & BSPP Port Sizes:  
3/4, 1

EXTERNALLY PILOTED



**PR180M / PRH180**  
High Flow  
NPTF & BSPP Port Sizes:  
1, 1-1/4

EXTERNALLY PILOTED



**IR100**  
Vanguard Modular  
NPTF & BSPP Port Sizes:  
1/4, 3/8, 1/2, & 3/4

INTERNALLY PILOTED



**IR380**  
Modular  
NPTF & BSPP Port Sizes:  
3/8, 1/2, & 3/4

INTERNALLY PILOTED



**IR180M**  
High Flow  
NPTF & BSPP Port Sizes:  
3/4, 1

INTERNALLY PILOTED



**PR55M / PR 56M**  
Miniature  
NPTF & BSPP Port Sizes:  
1/8, 1/4

EXTERNALLY PILOTED



**PR100 / PRH100**  
Vanguard Modular  
NPTF & BSPP Port Sizes:  
1/4, 3/8, 1/2, & 3/4

EXTERNALLY PILOTED



**PR380 / PRH380**  
Modular  
NPTF & BSPP Port Sizes:  
3/8, 1/2, & 3/4

EXTERNALLY PILOTED



**PR200**  
High Flow  
NPTF & BSPP Port Sizes:  
1-1/2, 2

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**PR300**  
High Flow  
NPTF & BSPP Port Sizes:  
3

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**PR250**  
High Flow  
NPTF & BSPP Port Sizes:  
1-1/2, 2

EXTERNALLY PILOTED



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# Piloted Regulators

Boxes that are marked with yellow are available options for the product listed. Numbers and letters inside each yellow box reflects the proper suffix / prefix needed. See Master Pneumatic catalog for complete product breakdown chart.

## PIPE SIZE CHART

	TUBING						NPTF & BSPP PIPE THREADS											
	1/4	3/8	1/2	3/4	1	1-1/2	2	3	1/8	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2	3
PR11M	04	06	M4	M6	M8	M10	1	2										
PR55M / PR56M	04	06	M4	M6	M8	M10	1	2										
PR100									2	3	4	6						
PRH100									2	3	4	6						
HPR100									2	3	4	6						
IR100									2	3	4	6						
PR380										3	4	6						
PRH380										3	4	6						
IR380										3	4	6						
PR180M													6	8	10	12		
PRH180M													6	8	10	12		
HPR180													6	8	10	12		
IR180M													6	8	10	12		
R200																	12	16
HPR250																	12	16
PR300																		24

## OPTIONS CHART

	PR11M	PR55M / PR56M	PR100	PRH100	IR100	PR380	PRH380	IR380	PR180M	PRH180M	HPR180	IR180M	R200	HPR250	PR300
<b>Regulator Type (prefix)</b>															
Piston		PR55M													
Diaphragm		PR56M													
<b>Head Material (prefix)</b>															
Acetal															
Aluminum															
Brass		B													
Zinc															
<b>Spring Range (suffix)</b>															
15-100 PSI				L			L				L				
0-125 PSI															
0-200 PSI															
15-200 PSI															
15-250 PSI					H		H					H			
<b>Relieving (suffix)</b>															
Self Relieving															
Non Relieving	A	A	A			A	A		A				A	A	A
<b>Seals &amp; O-Rings (suffix)</b>															
Nitrile															
Viton				V									V	V	V

## FLOW RATE

	Port Size	Inlet PSIG, set pressure PSIG, 15 PSIG pressure drop flow of SCFM
PR55M / PR56M	1/8	Inlet 91 psig, set pressure 72 psig, at 15 psig drop flow 24 SCFM
	1/4	Inlet 91 psig, set pressure 72 psig, at 15 psig drop flow 24 SCFM
PR100	1/4	Inlet 100 psig, Set pressure 100 psig, At 15 psig drop flow 80 SCFM
	3/8	Inlet 100 psig, Set pressure 100 psig, At 15 psig drop flow 90 SCFM
	1/2	Inlet 100 psig, Set pressure 100 psig, At 15 psig drop flow 135 SCFM
	3/4	Inlet 100 psig, Set pressure 100 psig, At 15 psig drop flow 135 SCFM
PRH100	1/4	Inlet 91 psig, Set pressure 72 psig, At 15 psig drop flow 80 SCFM
	1/2	Inlet 91 psig, Set pressure 72 psig, At 15 psig drop flow 138 SCFM
	3/4	Inlet 91 psig, Set pressure 72 psig, At 15 psig drop flow 138 SCFM
	1	Inlet 91 psig, Set pressure 72 psig, At 15 psig drop flow 138 SCFM
HPR100	1/4	Inlet 91.3 psig, Set pressure 72.5 psig, At 15 psig drop flow 94 SCFM
	3/8	Inlet 91.3 psig, Set pressure 72.5 psig, At 15 psig drop flow 100 SCFM
	1/2	Inlet 91.3 psig, Set pressure 72.5 psig, At 15 psig drop flow 127 SCFM
	3/4	Inlet 91.3 psig, Set pressure 72.5 psig, At 15 psig drop flow 127 SCFM
IR100	1/4	Inlet 100 psig, Set pressure 80 psig, At 15 psig drop flow 80 SCFM
	3/8	Inlet 100 psig, Set pressure 80 psig, At 15 psig drop flow 90 SCFM
	1/2	Inlet 100 psig, Set pressure 80 psig, At 15 psig drop flow 165 SCFM
	3/4	Inlet 100 psig, Set pressure 80 psig, At 15 psig drop flow 170 SCFM
PR380	3/8	Inlet 91 psig, Set pressure 72 psig, At 15 psig drop flow 165 SCFM
	1/2	Inlet 91 psig, Set pressure 72 psig, At 15 psig drop flow 165 SCFM
	3/4	Inlet 91 psig, Set pressure 72 psig, At 15 psig drop flow 165 SCFM
	1	Inlet 91 psig, Set pressure 72 psig, At 15 psig drop flow 165 SCFM
PRH380	3/8	Inlet 91.3 psig, Set pressure 72.5 psig, At 15 psig drop flow 159 SCFM
	1/2	Inlet 91.3 psig, Set pressure 72.5 psig, At 15 psig drop flow 159 SCFM
	3/4	Inlet 91.3 psig, Set pressure 72.5 psig, At 15 psig drop flow 165 SCFM
	1	Inlet 91.3 psig, Set pressure 72.5 psig, At 15 psig drop flow 165 SCFM
IR380	3/8	Inlet 91 psig, Set pressure 72 psig, At 15 psig drop flow 160 SCFM
	1/2	Inlet 91 psig, Set pressure 72 psig, At 15 psig drop flow 160 SCFM
	3/4	Inlet 91 psig, Set pressure 72 psig, At 15 psig drop flow 150 SCFM
	1	Inlet 91 psig, Set pressure 72 psig, At 15 psig drop flow 150 SCFM

	Port Size	Inlet PSIG, set pressure PSIG, 15 PSIG pressure drop flow of SCFM
PR180M	3/4	Inlet 100 psig, Set pressure 80 psig, At 15 psig drop flow 390 SCFM
	1	Inlet 100 psig, Set pressure 80 psig, At 15 psig drop flow 390 SCFM
	1-1/4	Inlet 100 psig, Set pressure 80 psig, At 15 psig drop flow 640 SCFM
	1-1/2	Inlet 100 psig, Set pressure 80 psig, At 15 psig drop flow 640 SCFM
PRH180M	3/4	Inlet 91 psig, Set pressure 72 psig, At 15 psig drop flow 400 SCFM
	1	Inlet 91 psig, Set pressure 72 psig, At 15 psig drop flow 520 SCFM
	1-1/4	Inlet 91 psig, Set pressure 72 psig, At 15 psig drop flow 550 SCFM
	1-1/2	Inlet 91 psig, Set pressure 72 psig, At 15 psig drop flow 550 SCFM
HPR180	3/4	Inlet 91.3 psig, Set pressure 72.5 psig, At 15 psig drop flow 290 SCFM
	1	Inlet 91.3 psig, Set pressure 72.5 psig, At 15 psig drop flow 335 SCFM
	1-1/4	Inlet 91.3 psig, Set pressure 72.5 psig, At 15 psig drop flow 335 SCFM
	1-1/2	Inlet 91.3 psig, Set pressure 72.5 psig, At 15 psig drop flow 335 SCFM
IR180M	3/4	Inlet 91 psig, Set pressure 72 psig, At 15 psig drop flow 460 SCFM
	1	Inlet 91 psig, Set pressure 72 psig, At 15 psig drop flow 620 SCFM
	1-1/4	Inlet 91 psig, Set pressure 72 psig, At 15 psig drop flow 640 SCFM
	1-1/2	Inlet 91 psig, Set pressure 72 psig, At 15 psig drop flow 640 SCFM
R200	1-1/2	Inlet 91 psig, Set pressure 72 psig, At 15 psig drop flow 1600 SCFM
	2	Inlet 91 psig, Set pressure 72 psig, At 15 psig drop flow 1600 SCFM
HPR250	1-1/2	Inlet 91 psig, Set pressure 72 psig, At 15 psig drop flow 1100 SCFM
	2	Inlet 91 psig, Set pressure 72 psig, At 15 psig drop flow 1100 SCFM
PR300	3	Inlet 91 psig, Set pressure 72 psig, At 15 psig drop flow 3500 SCFM



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