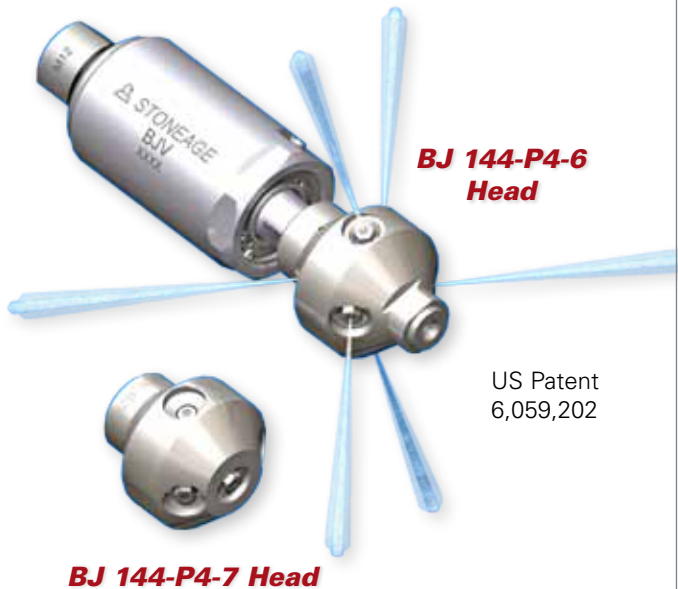


Up to 22k psi & 10-200 gpm

BJV-M™, BJV-P16™ & BJV-20k™ Nozzles



3 BJV's with Pressure, Flow and Jetting Options

The **BJV-M™** is a 2-D self-rotating nozzle with a maximum working pressure of 15k psi. The **BJV-M™** handles pipes and drains from 6"-72" at 15k psi, as well as tanks, reactors, process vessels, heat exchanger shells and coker cyclones. The **BJV's™** use viscous fluid rotation speed control and operate using 2, 4 or 6 jets in balance. The **BJV-M™** can handle flows up to 100 gpm and the **BJV-P16™** can handle up to 200 gpm.



BJV-20k™ with **BJ 144-P4-6** head.

When You Need 20k psi Power

The **BJV-20k™** operates at a maximum flow of 60 gpm using 2, 4 or 6 jets in balance. Options include a standard 6-jet head as well as a second head option with a 7th boring jet for unplugging at 15° off-center in the front. Both are made of durable stainless steel and use replaceable high pressure seals and nozzle tips.

PIPE CLEANING

Selecting a Head for BJV-M™ Flows

OFFSET FLOW	R60	R35	R20	R12
	12-20 gpm	23-35 gpm	40-60 gpm	70-100 gpm

Selecting a Head for the BJV-P16™

OFFSET FLOW	R20	R12	R09
	50-85 gpm	85-150 gpm	150-200gpm

Selecting a Head for the BJV-20k™

OFFSET FLOW	R60	R35	R20	R12
	10-15 gpm	15-24 gpm	24-40 gpm	40-60 gpm

Tool Talk™

Head Selection

Each one of our tool heads (listed above) are stamped with their 'R' value. The "R" value is the distance from the center of the head to the nozzle port. If pumps are switched in the field, be certain that you have the right head to match the pump, or switch the head for the proper rotation speed.

BJV-M™, BJV-P16™ & BJV-20k™ Specs

MODEL	BJV-M™	BJV-P16™	BJV-20k™
Maximum Pressure	15k psi 1000 bar	10k psi 700 bar	22k psi 1500 bar
Rotation Rate			
Fast	40-200 rpm	NA	70-300 rpm
Slow	5-80 rpm	30-80 rpm	15-50 rpm
Maximum Flow	100 gpm 380 lpm	200 gpm 760 lpm	60 gpm 230 lpm
Flow Rating	4.6 Cv	7.5 Cv	2.3 Cv
Length	7.25 in 184 mm	7.25 in 184 mm	8.4 in 213 mm
Inlet Port	3/4 npt	1 npt	3/4 MP
Weight	8 lbs 3.6 kg	8 lbs 3.6 kg	8 lbs. 3.6 kg
Standard Head	BJ 044-P4-Rx	BJ 041-P8-Rx	BJ 144-P4-Rx
Diameter	3.0 in. 76 mm	3.5 in. 89 mm	3.0 in. 76 mm
Outlet Ports	6 or 7 x 1/4 npt	6 x 1/2 npt	6 or 7 x 1/4 npt
Weight	3.3 lbs 1.5 kg	5.0 lbs 2.3 kg	3.3 lbs 1.5 kg
Extension Head	BJ 041-P8-Rx	BJ 041-P12-Rx	BJ 145-G12-Rx
Diameter	3.5 in. 89 mm	3.5 in. 89 mm	3.5 in. 89 mm
Outlet Ports	6 x 1/2 npt	6 x 3/4 npt	6 x G12 6 x G12
Weight	5.0 lbs 2.3 kg	5.0 lbs 2.3 kg	4.5 lbs 2.0 kg

40k psi Power & Up to 20 gpm

BJV-H9™ Nozzles

BJ 444-S6-6 Head



Our technical sales staff can help you select the correct head for your specific application.

US Patent
6,059,202

BJV-H9 - 40k Power plus Fast & Slow Rotation

The **BJV-H9™** is our ultra high pressure 40k psi self-rotating nozzle. Like the **BJV-20k™** it features a viscous fluid speed control and has accessible high pressure seals that replace easily through the inlet port.



BJV-H9™ with BJ 444-S6 head.

When 40k psi Power is Needed

The **BJV-H9™** operates using 2, 4 or 6 jets in balance. There is a standard 6-jet head and a second head option that features a 7th boring jet for unplugging at 15° off-center in the front. Both are made of durable stainless steel and use replaceable high pressure seals and nozzle tips. We recommend using a centralizer for all rotating head assemblies. The **BJ-288**, shown below at left, is detailed on the centralizer page.



StoneAge® Centralizers adapt easily to larger pipes - see next 2 pages

Options

All **BJV™** tools can be used with extension nipples and centralizers. See pages 18-19 for centralizers and 51 for extension nipple details.

Selecting Your Flow Range

OFFSET	R70	R40	R25
30k psi	3.9 - 6.7 gpm	6.7 - 11.9 gpm	10.9 - 20 gpm
35k psi	3.6 - 6.2 gpm	6.4 - 11.0 gpm	10.0 - 18 gpm
40k psi	3.4 - 5.8 gpm	5.8 - 10.2 gpm	9.3 - 11.6 gpm

BJV-H9™ Specs

Maximum Pressure	40k psi	2800 bar
Rotation Rate		
Fast	90-250 rpm	
Slow	20-60 rpm	
Maximum Flow	20 gpm	70 lpm
Flow Rating	0.67 Cv	
Length	8.4 in.	213 mm
Inlet Port	9/16 HP	
Weight	8.0 lbs	3.6 kg
Standard Head	BJ 444-S6-Rx	
Diameter	3.0 in.	76 mm
Outlet Ports	6 or 7, 3/8 NF OS6	
Weight	3.3 lbs	1.5 kg
Optional Head	BJ 441-G9-Rx	
Diameter	3.5 in.	89 mm
Outlet Ports	6 x G9	
Weight	3.3 lbs	1.5 kg

PIPE CLEANING



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