

BJV

Rotary Cleaning for Straight Pipes



Designed for a wide range of pipe diameters, pressures, flows, and configurations, BJV controlled rotary nozzles are the industry standard for cleaning medium to large pipes and vessels.

The customizability of the BJV and its extensive range of accessories make it one of the most versatile nozzles in the industry. The tool can be configured for any pump/pressure/flow by swapping heads and modifying jet patterns and then combining with extensions, pull rings, centralizers or cages to accommodate a huge array of cleaning applications including pipes, stacks, tanks, rail cars, conveyors, tunnels, etc.

The BJV can be paired with the AutoBox ABX-500 for a hands-free solution to many cleaning jobs.

COMPETITIVE ADVANTAGES

- Most versatile nozzle in the industry
- Compatible with a wide range of heads and jetting configurations for any pump up to 40k psi/2800 bar or up to 200 gpm/757 LPM
- Can be customized and accessorized for cleaning pipes and vessels from 4" up to 60" in diameter under the most adverse conditions
- 10K, 15K, and 22K models **run 3X longer between service intervals** saving considerable service cost with less downtime

FEATURES	BENEFITS
<ul style="list-style-type: none"> • 2019 redesign extends performance life three times longer between service intervals across 10K, 15K, and 22K tools 	<ul style="list-style-type: none"> • Speed control guaranteed to be maintenance-free for three years
<ul style="list-style-type: none"> • Easy to access high pressure seal 	<ul style="list-style-type: none"> • When field maintenance becomes necessary, seal replacement is fast and easy — <i>under 3 minutes</i>
<ul style="list-style-type: none"> • Quick inlet cartridge and head change 	<ul style="list-style-type: none"> • Swap from 15K to 22K on the fly
<ul style="list-style-type: none"> • Variable speed control 	<ul style="list-style-type: none"> • Maximize cleaning by choosing slower speeds for hard to clean or plugged pipes, and faster speeds for polishing easy to clean pipes with a single tool

BJV TOOL OVERVIEW

QUESTIONS TO ASK THE CUSTOMER

- What size and length of hose are you using?
- Do you need an adapter?
- Do you need a backout preventer?
You should always use a backout preventer with high pressure pipe cleaning tools.
- Do you need a stinger or centralizer?
A stinger or centering device is required when the ID of the pipe is 1.5 times larger the diameter of the tool being used, as described in the WJTA Recommended Guide.
- Are extensions required?

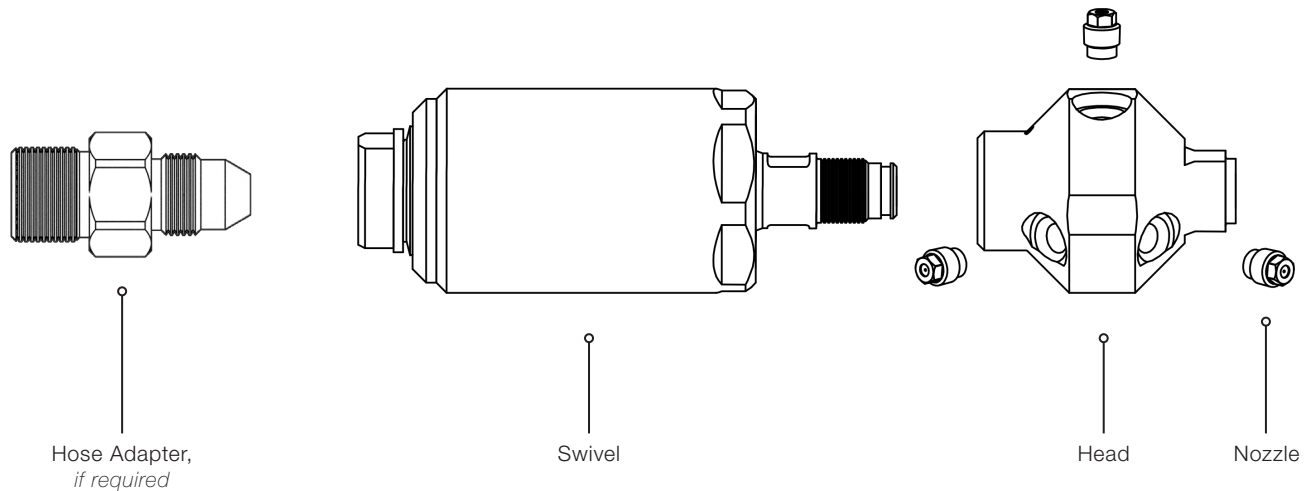
TOOL SPECIFICATIONS

PART ID	BJVE-P16	BJVE-P12	BJVE-M24	BJVE-MP12	BJV-H9
Pressure Range	2–10k psi 140–700 bar	2–15k psi 140–1000 bar	2–22k psi 140–1500 bar	2–22k psi 140–1500 bar	20–40k psi 1400–2800 bar
Flow Range	20–200 gpm 76–757 l/min	12–100 gpm 45–380 l/min	12–100 gpm 45–380 l/min	12–100 gpm 45–380 l/min	3.4–20 gpm 13–76 l/min
Flow Coefficient	7.5 Cv	4.6 Cv	4.6 Cv	4.6 Cv	0.67 Cv
Rotation Speed	25–95 rpm (Slow) 50–200 rpm (Medium) 85–300 rpm (Fast)	20–95 rpm (Slow) 40–190 rpm (Medium) 70–275 rpm (Fast)	20–95 rpm (Slow) 40–190 rpm (Medium) 70–275 rpm (Fast)	20–95 rpm (Slow) 40–190 rpm (Medium) 70–275 rpm (Fast)	20–60 rpm (Slow Fluid) 90–250 rpm (Fast Fluid)
Inlet Connection	1 NPT	3/4 NPT	M24	3/4 MP	9/16 HP
Port Size	1/4 NPT (P4), 1/2 NPT (P8)	1/4 NPT (P4), 1/2 NPT (P8)	1/4 NPT (P4), G12	1/4 NPT (P4), G12	3/8-24 UNF (S6)
Nozzle Type	AP4, APF4, OC8-P8, OC8-P12	AP4, APF4, OC8-P8, OC8-P12	AP4, APF4	AP4, APF4	OS6
Port Plug	GP 025-P4SS, GP 025-P8SS	GP 025-P4SS, GP 025-P8SS	GP 025-P4SS, SA 058-G12	GP 025-P4SS	OS6 002
Swivel Diameter	3 in. 76 mm	3 in. 76 mm	3 in. 76 mm	3 in. 76 mm	3 in. 76 mm
Swivel Length	8.8 in. 224 mm	8.8 in. 224 mm	8.8 in. 224 mm	8.8 in. 224 mm	8.4 in. 213 mm
Swivel Weight	8.5 lb 3.9 kg	8.5 lb 3.9 kg	8.5 lb 3.9 kg	8.5 lb 3.9 kg	9.8 lb 4.4 kg
Head Weight	3.3 lb 1.5 kg	3.3 lb 1.5 kg	3.3 lb 1.5 kg	3.3 lb 1.5 kg	3.3 lb 1.5 kg
Maximum Water Temperature	160 °F 70 °C	160 °F 70 °C	160 °F 70 °C	160 °F 70 °C	160 °F 70 °C

Visit our website for tool resources including operation and maintenance videos:

WWW.STONEAGETOOLS.COM

BJV TOOL CONFIGURATION



A complete BJV tool configuration requires the following components:

1. Swivel for required working pressure and appropriate inlet connection
2. Head for the required pressure, flow and application
3. Nozzles/plugs of the appropriate number and size

The following items may also be required:

- Suitable hose adapter
- Centralizer, extension nipples, pulling ring
- Stinger
- Backout preventer

To configure a BJV tool, the following information should be obtained:

- Pump pressure and flow
- Hose length and ID
- Hose end fitting

BJV TOOL CONFIGURATION

ORDERING A STANDARD PACKAGE

StoneAge offers standardized BJV tool packages for the most commonly used configurations. All BJV packages come fully assembled and include 1. Swivel, 2. Head, and 3. Nozzles specified to jetting, 4. Case.

The following table shows the configurations of standard BJV tool packages:

MAXIMUM PRESSURE	INLET CONNECTION	HEAD	PACKAGE CONTENTS	PACKAGE PART ID
10k psi 690 bar	1 NPT	6 x P4 ports	1 x BJVE-P16-M swivel 1 x BJ 144-P4-6-R?? head 6 x AP4 or APF4 nozzles/plugs 1 x BJ 080 case	BJVE-P16-P4-6-PKG
		7 x P4 ports	1 x BJVE-P16-M swivel 1 x BJ 144-P4-7-R?? head 7 x AP4 or APF4 nozzles/plugs 1 x BJ 080 case	BJVE-P16-P4-7-PKG
15k psi 1000 bar	3/4 NPT	6 x P4 ports	1 x BJVE-P12-M swivel 1 x BJ 144-P4-6-R?? head 6 x AP4 or APF4 nozzles/plugs 1 x BJ 080 case	BJVE-P12-P4-6-PKG
		7 x P4 ports	1 x BJVE-P12-M swivel 1 x BJ 144-P4-7-R?? head 7 x AP4 or APF4 nozzles/plugs 1 x BJ 080 case	BJVE-P12-P4-7-PKG
22k psi 1500 bar	3/4 MP	6 x P4 ports	1 x BJVE-MP12-M swivel 1 x BJ 144-P4-6-R?? head 6 x AP4 or APF4 nozzles/plugs 1 x BJ 080 case	BJVE-MP12-P4-6-PKG
		7 x P4 ports	1 x BJVE-MP12-M swivel 1 x BJ 144-P4-7-R?? head 7 x AP4 or APF4 nozzles/plugs 1 x BJ 080 case	BJVE-MP12-P4-7-PKG
	M24	6 x P4 ports	1 x BJVE-M24-M swivel 1 x BJ 144-P4-6-R?? head 6 x AP4 or APF4 nozzles/plugs 1 x BJ 080 case	BJVE-M24-P4-6-PKG
		7 x P4 ports	1 x BJVE-M24-M swivel 1 x BJ 144-P4-7-R?? head 7 x AP4 or APF4 nozzles/plugs 1 x BJ 080 case	BJVE-M24-P4-7-PKG
44k psi 3000 bar	9/16 HP	6 x S6 ports	1 x BJV-H9-? swivel 1 x BJ 444-S6-R70 head 6 x O S6 nozzles/plugs 1 x BJ 080 case	BJV-H9-S6-6-PKG
		8 x S6 ports	1 x BJV-H9-? swivel 1 x BJ 444-S6-?? head 8 x O S6 nozzles/plugs 1 x BJ 080 case	BJV-H9-S6-8-PKG

?? Specify desired R-value — See head options on following page

BJV TOOL CONFIGURATION

PACKAGE HEAD OPTIONS

The following table shows head selection by desired flow for each package:

PRESSURE	PACKAGE	FLOW	R-VALUE	HEAD
10k psi 690 bar	BJVE-P16-P4-6-PKG	15–25 gpm 57–95 LPM	R60	BJ 144-P4-6-R60
		20–45 gpm 76–170 LPM	R35	BJ 144-P4-6-R35
		35–80 gpm 133–303 LPM	R20	BJ 144-P4-6-R20
		55–140 gpm 208–530 LPM	R12	BJ 144-P4-6-R12
	BJVE-P16-P4-7-PKG	15–25 gpm 57–95 LPM	R60	BJ 144-P4-7-R6
		20–45 gpm 76–170 LPM	R35	BJ 144-P4-7-R35
		35–80 gpm 133–303 LPM	R20	BJ 144-P4-7-R20
		55–140 gpm 208–530 LPM	R12	BJ 144-P4-7-R12
15k psi 1000 bar	BJVE-P12-P4-6-PKG	10–20 gpm 38–76 LPM	R60	BJ 144-P4-6-R60
		20–40 gpm 76–151 LPM	R35	BJ 144-P4-6-R35
		30–70 gpm 114–265 LPM	R20	BJ 144-P4-6-R20
		50–120 gpm 189–454 LPM	R12	BJ 144-P4-6-R12
	BJVE-P12-P4-7-PKG	10–20 gpm 38–76 LPM	R60	BJ 144-P4-7-R6
		20–40 gpm 76–151 LPM	R35	BJ 144-P4-7-R35
		30–70 gpm 114–265 LPM	R20	BJ 144-P4-7-R20
		50–120 gpm 189–454 LPM	R12	BJ 144-P4-7-R12
22k psi 1500 bar	BJVE-MP12-P4-6-PKG	10–20 gpm 38–76 LPM	R60	BJ 144-P4-6-R60
		20–35 gpm 76–133 LPM	R35	BJ 144-P4-6-R35
		30–65 gpm 114–246 LPM	R20	BJ 144-P4-6-R20
		50–110 gpm 189–416 LPM	R12	BJ 144-P4-6-R12
	BJVE-MP12-P4-7-PKG	10–20 gpm 38–76 LPM	R60	BJ 144-P4-7-R6
		20–35 gpm 76–133 LPM	R35	BJ 144-P4-7-R35
		30–65 gpm 114–246 LPM	R20	BJ 144-P4-7-R20
		50–110 gpm 189–416 LPM	R12	BJ 144-P4-7-R12
	BJVE-M24-P4-6-PKG	10–20 gpm 38–76 LPM	R60	BJ 144-P4-6-R60
		20–35 gpm 76–133 LPM	R35	BJ 144-P4-6-R35
		30–65 gpm 114–246 LPM	R20	BJ 144-P4-6-R20
		50–110 gpm 189–416 LPM	R12	BJ 144-P4-6-R12
	BJVE-M24-P4-7-PKG	10–20 gpm 38–76 LPM	R60	BJ 144-P4-7-R6
		20–35 gpm 76–133 LPM	R35	BJ 144-P4-7-R35
		30–65 gpm 114–246 LPM	R20	BJ 144-P4-7-R20
		50–110 gpm 189–416 LPM	R12	BJ 144-P4-7-R12
44k psi 3000 bar	BJV-H9-S6-8-PKG	6–10 gpm 23–38 LPM	R40	BJ 444-S6-R40
		9–17 gpm 34–64 LPM	R25	BJ 444-S6-R25

BJV TOOL CONFIGURATION

ORDERING BY LINE ITEM

Complete tools can be configured by following the steps outlined below.
 Contact your StoneAge Account Representative for questions about specific applications.

STEP 1 SWIVEL SELECTION

There are multiple swivel options available. The correct swivel is selected based on the maximum working pressure, inlet connection, and required rotation speed.

MAXIMUM PRESSURE	INLET CONNECTION	SWIVEL PART ID	
10k psi 700 bar	1 NPT Female	BJVE-P16-M 50–200 rpm	
15k psi 1000 bar	3/4 NPT Female	BJVE-P12-M 40–190 rpm	
22k psi 1500 bar	3/4 MP Female	BJV-MP12-M 40–190 rpm	
	M24 Female	BJVE-M24-M 40–190 rpm	
40k psi 2800 bar	9/16 HP Female	BJV-H9-F 90–250 rpm	BJV-H9-S 20–60 rpm

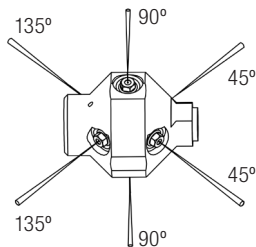
STEP 2 HOSE/LANCE CONNECTION

A hose adapter may be required depending on the inlet connection of your swivel.
 See *Fittings and Adapters* or ask your StoneAge Representative for available options.

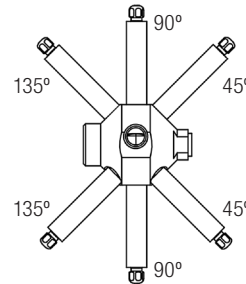
BJV TOOL CONFIGURATION

STEP 3 HEAD SELECTION

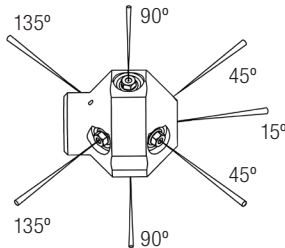
There are different head options for each BJV swivel: 6-port standard, 7-port standard, and 6-port extension. An 8-port option is available for 40K. The correct head specification is based on the pressure and flow of the pump and the required port size.



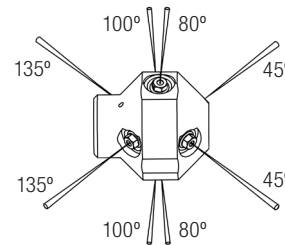
6-PORT
2 @ 45°
2 @ 90°
2 @ 135°



6-PORT
2 @ 45°
2 @ 90°
2 @ 135°



7-PORT
1 @ 15°
2 @ 45°
2 @ 90°
2 @ 135°



8-PORT
2 @ 45°
2 @ 80°
2 @ 100°
2 @ 135°

Head Options by Swivel:

SWIVEL	HEAD TYPE	HEAD SIZE	NOZZLES	HEAD PART ID	R-VALUE OPTIONS	PACKAGE PART ID
BJVE-P16	Standard	P4	6 x AP4 or APF4	BJ 144-P4-6-R??	R12, R20, R35, R60	BJVE-P16-P4-6-PKG
			7 x AP4 or APF4	BJ 144-P4-7-R??	R12, R20, R35	BJVE-P16-P4-7-PKG
	Extension	P8	6 x AP4 or APF4	BJVE 145-P8-6-R??	R12, R20, R35, R60	N/A
BJVE-P12	Standard	P4	6 x AP4 or APF4	BJ 144-P4-6-R??	R12, R20, R35, R60	BJVE-P12-P4-6-PKG
			7 x AP4 or APF4	BJ 144-P4-7-R??	R12, R20, R35	BJVE-P12-P4-7-PKG
	Extension	P8	6 x AP4 or APF4	BJVE 145-P8-6-R??	R12, R20, R35, R60	N/A
BJVE-MP12	Standard	P4	6 x AP4 or APF4	BJ 144-P4-6-R??	R12, R20, R35, R60	BJVE-MP12-P4-6-PKG
			7 x AP4 or APF4	BJ 144-P4-7-R??	R12, R20, R35	BJVE-MP12-P4-7-PKG
	Extension	G12	6 x AP4 or APF4	BJ 145-G12-6-R??	R12, R20, R35, R60	N/A
BJVE-M24	Standard	P4	6 x AP4 or APF4	BJ 144-P4-6-R??	R12, R20, R35, R60	BJVE-M24-P4-6-PKG
			7 x AP4 or APF4	BJ 144-P4-7-R??	R12, R20, R35	BJVE-M24-P4-7-PKG
	Extension	G12	6 x AP4 or APF4	BJ 145-G12-6-R??	R12, R20, R35, R60	N/A
BJ-H9	Standard	S6	6 x OS6	BJ 444-S6-R70	R70	BJV-H9-S6-6-PKG
			8 x OS6	BJ 444-S6-??	R25, R40	BJV-H9-S6-8-PKG

?? Specify desired R-value

For most accurate head selection, use the StoneAge Jetting App:

JETTING.STONEAGETOOLS.COM

BJV TOOL CONFIGURATION

STEP 4 NOZZLES AND PLUGS

BJV tool heads can be jetted in different configurations depending on the application. Here are the most commonly used nozzle/plug configurations:

HEAD TYPE		45° PORTS		90° PORTS		135° PORTS			
6-Port		2 x Nozzle		2 x Nozzle		2 x Nozzle			
		2 x Plug		2 x Nozzle		2 x Nozzle			
		2 x Plug		2 x Nozzle		2 x Plug			
		2 x Plug		2 x Plug		2 x Nozzle			
HEAD TYPE		80° PORTS		100° PORTS		135° PORTS			
6-Port		2 x Extension		2 x Extension		2 x Extension			
		2 x Plug		2 x Extension		2 x Extension			
		2 x Extension		2 x Extension		2 x Plug*			
		2 x Plug		2 x Extension		2 x Plug*			
HEAD TYPE		15° PORT		45° PORTS		90° PORTS		135° PORTS	
7-Port		1 x Plug		2 x Nozzle		2 x Nozzle		2 x Nozzle	
		1 x Nozzle		2 x Plug		2 x Nozzle		2 x Nozzle	
		1 x Nozzle		2 x Plug		2 x Nozzle		2 x Plug	
		1 x Nozzle		2 x Plug		2 x Plug		2 x Nozzle	
HEAD TYPE		45° PORTS		80° PORT		100° PORT		135° PORTS	
8-Port		2 x Nozzle		2 x Nozzle		2 x Nozzle		2 x Nozzle	
		2 x Plug		2 x Nozzle		2 x Nozzle		2 x Nozzle	
		2 x Plug		2 x Plug		2 x Nozzle		2 x Nozzle	
		2 x Plug		2 x Nozzle		2 x Nozzle		2 x Plug	

*When used with pull ring or rigid lance

Once you have confirmed the jetting configuration, use the StoneAge Jetting App to determine nozzle sizes:
JETTING.STONEAGETOOLS.COM

BJV TOOL CONFIGURATION

STEP 5 CENTRALIZER OPTIONS

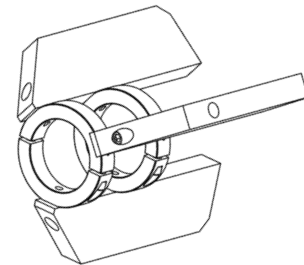
A centralizer helps to protect the tool as it passes through the pipe and balances jet standoff distance for more consistent cleaning. In cases where pipe size is more than 1.5 times the diameter of the tool, a centralizer is an important safety device, preventing the tool from turning around and thrusting backwards out of the pipe.

CENTRALIZER WITH SKIDS AND COLLARS

PIPE SIZE	CENTRALIZER (COMPLETE)	WEIGHT	COLLAR*	SKID**
6 in. 152 mm	BJ 070-6	3.8 lb 1.7 kg	BJ 070.2	BJ 070.1-6
8 in. 203 mm	BJ 070-8	4.8 lb 2.2 kg	BJ 070.2	BJ 070.1-8
10 in. 254 mm	BJ 070-10	6.2 lb 2.8 kg	BJ 070.2	BJ 070.1-10
12 in. 305 mm	BJ 070-12	8.0 lb 3.6 kg	BJ 070.2	BJ 070.1-12

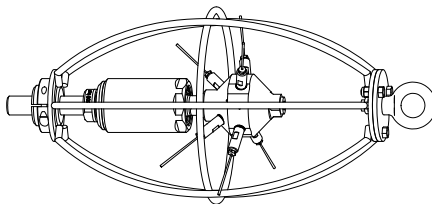
*Set of 2 collars

**Set of 3 skids with 6 screws

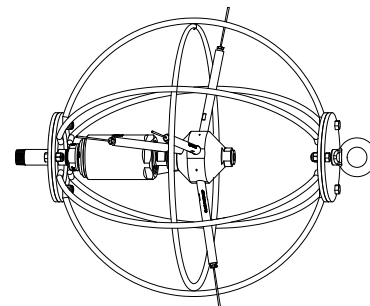


CAGE CENTRALIZERS

We offer two types of cage-style centralizers for BJV tools.



BJ 408-MP12/H9
BJ 408-P12/M24



BJ 100-SS
BJ 100-SS-MP

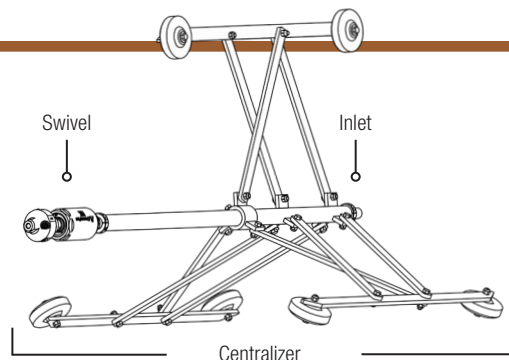
PART ID	BJ 408-MP12/H9		BJ 408-P12/M24*		BJ 100-SS	BJ 100-SS-MP
Tool	BJVE-MP12	BJV-H9	BJV-P12	BJV-M24	BJV-P12	BJV-P16 BJV-MP12 BJV-M24 BJV-H9
Maximum Extension	3 in. 76 mm	3 in. 76 mm	3 in. 76 mm	3 in. 76 mm	6 in. 152 mm	6 in. 152 mm
Required Inlet Extension*	N/A	N/A	SA 366-P12P12-6 (3/4 NPT Male)	SA 368-M24M24-6 (M24 Male)	N/A	N/A
Diameter	12 in. 300 mm	12 in. 300 mm	12 in. 300 mm	12 in. 300 mm	20 in. 510 mm	20 in. 510 mm
Length	20 in. 510 mm	20 in. 510 mm	20 in. 510 mm	20 in. 510 mm	24 in. 610 mm	24 in. 610 mm
Weight	10 lb 4.5 kg	10 lb 4.5 kg	10 lb 4.5 kg	10 lb 4.5 kg	11 lb 5.0 kg	11 lb 5.0 kg

*Requires specified extension nipple on the inlet

BJV TOOL CONFIGURATION

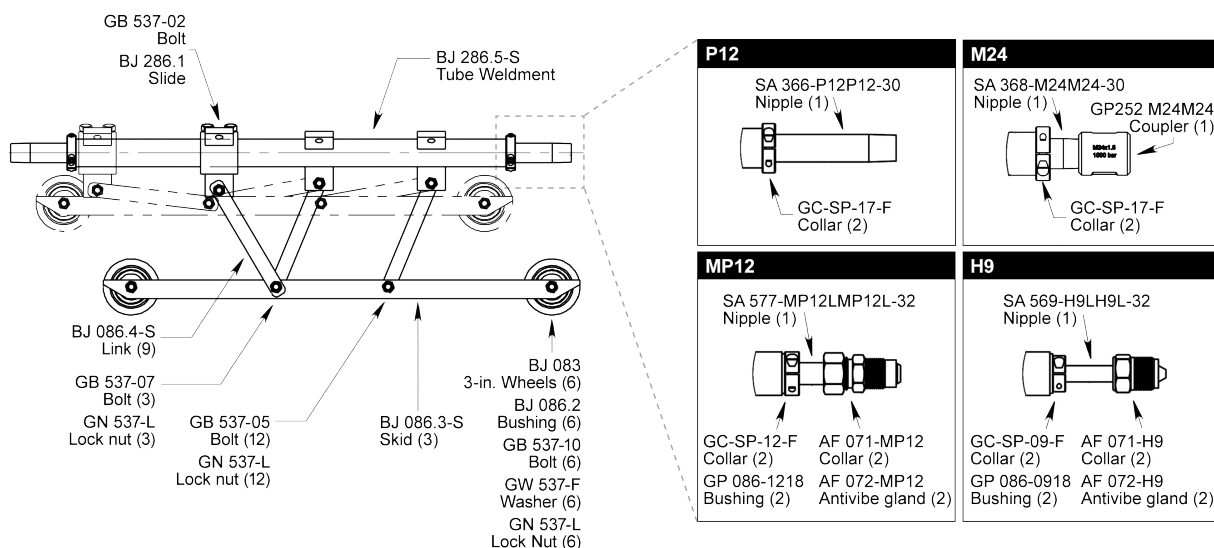
6-WHEEL CENTRALIZER

6-wheel BJV centralizers utilize a scissor style aluminium frame for diameter adjustment. These centralizers come in three sizes — Small, Medium, and Large — and are suitable for straight pipes as large as 5 feet (1.5 m). Larger custom sizes are available.



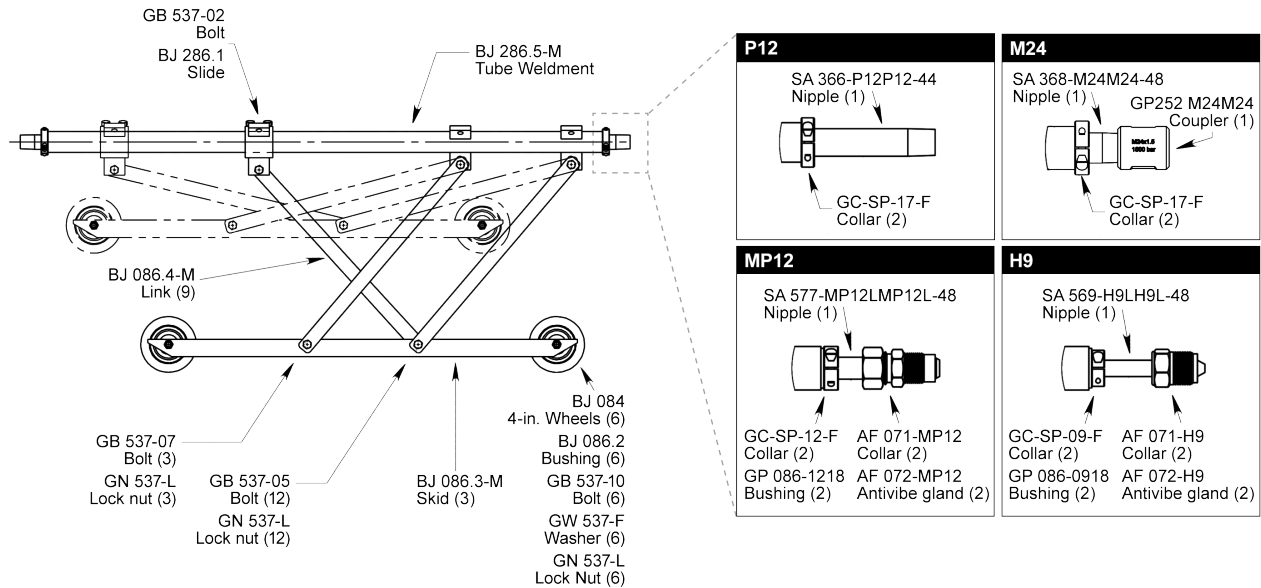
TOOL	THREAD SIZE	Ø RANGE	CENTRALIZER	WEIGHT
BJVE-P12	3/4 NPT Male x 3/4 NPT Male	9–18 in. 230–460 mm	BJ 286-S-P12	22 lb 10 kg
		13–40 in. 330–1000 mm	BJ 286-M-P12	34 lb 15 kg
		16–60 in. 410–1500 mm	BJ 286-L-P12	45 lb 20 kg
BJVE-M24	M24 Male x M24 Female	9–18 in. 230–460 mm	BJ 286-S-M24	22 lb 10 kg
		13–40 in. 330–1000 mm	BJ 286-M-M24	34 lb 15 kg
		16–60 in. 410–1500 mm	BJ 286-L-M24	45 lb 20 kg
BJVE-MP12	3/4 MP Male x 3/4 MP Male	9–18 in. 230–460 mm	BJ 286-S-MP12	20 lb 9 kg
		13–40 in. 330–1000 mm	BJ 286-M-MP12	32 lb 15 kg
		16–60 in. 410–1500 mm	BJ 286-L-MP12	40 lb 18 kg
BJV-H9	9/16 HP Male x 9/16 HP Male	9–18 in. 230–460 mm	BJ 286-S-H9	19 lb 9 kg
		13–40 in. 330–1000 mm	BJ 286-M-H9	30 lb 14 kg
		16–60 in. 410–1500 mm	BJ 286-L-H9	40 lb 18 kg

SMALL 6-WHEEL CENTRALIZER (BJ 286-S) COMPONENT PARTS

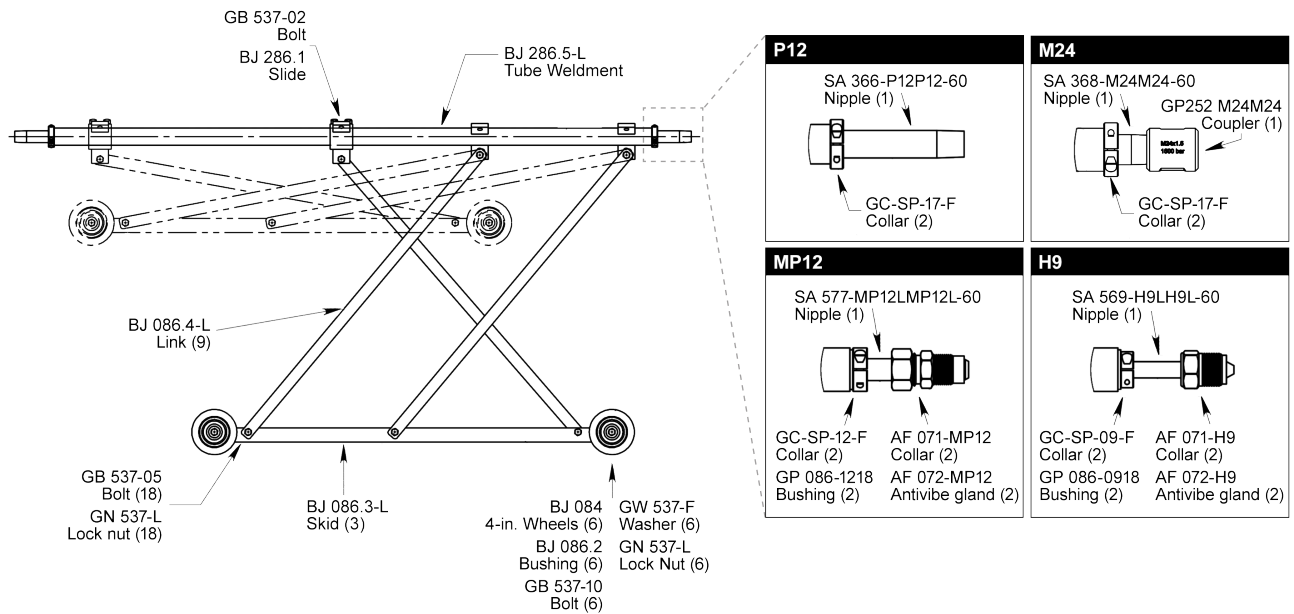


BJV TOOL CONFIGURATION

MEDIUM 6-WHEEL CENTRALIZER (BJ 286-M) COMPONENT PARTS



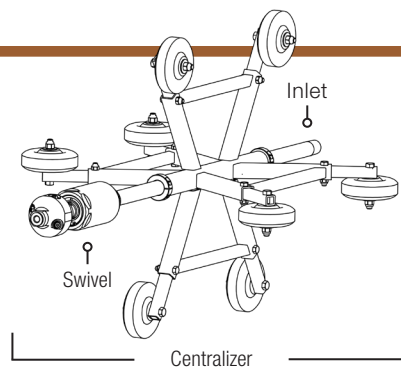
LARGE 6-WHEEL CENTRALIZER (BJ 286-L) COMPONENT PARTS



BJV TOOL CONFIGURATION

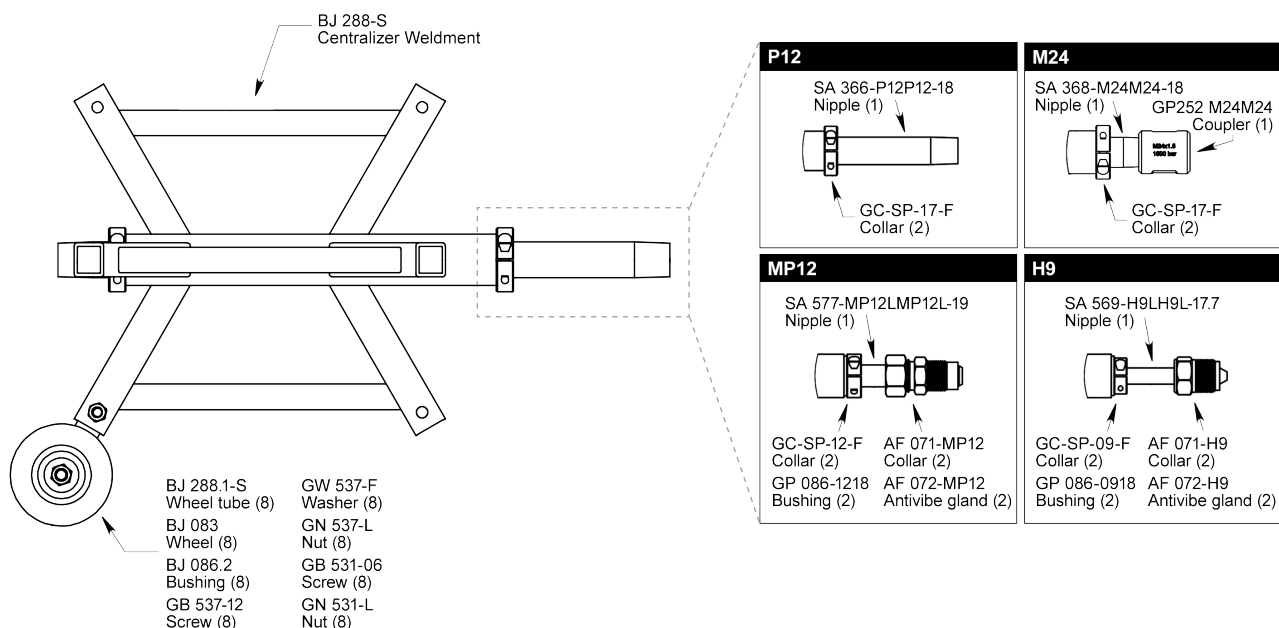
8-WHEEL CENTRALIZER

8-wheel BJV centralizers are suitable for pipes with bends as well as straight pipes. These centralizers come in three sizes — Small, Medium, and Large — and feature telescopic steel legs for fine-tuning diameter adjustment.



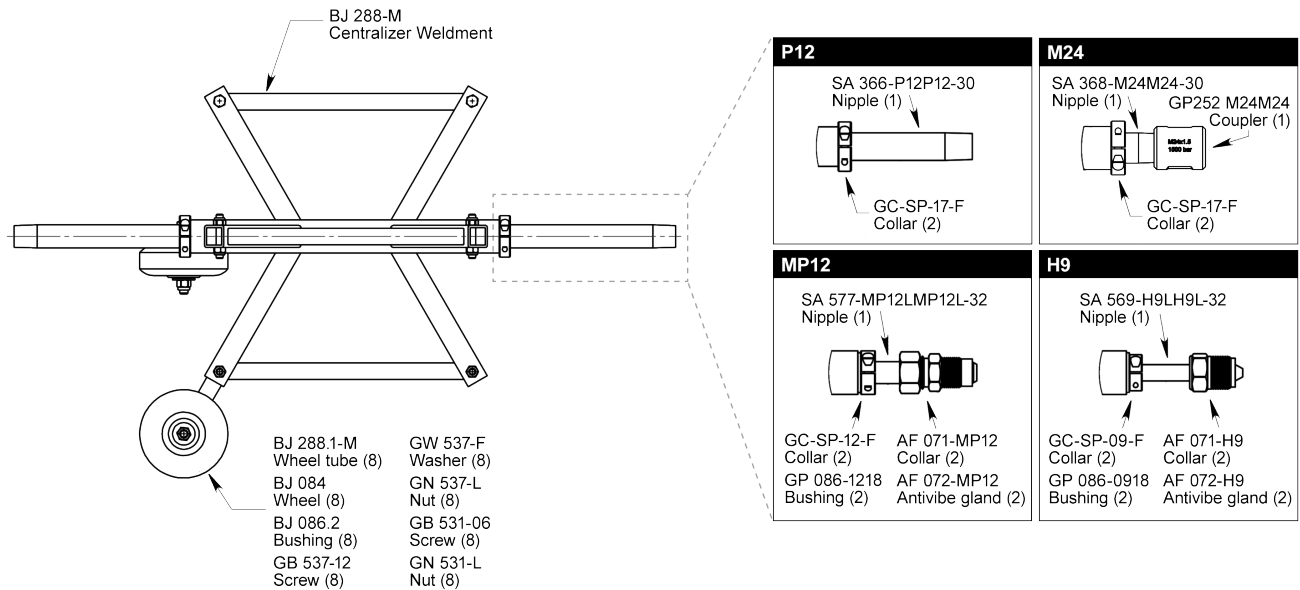
TOOL	THREAD SIZE	Ø RANGE	CENTRALIZER PART ID	WEIGHT
BJVE-P12	3/4 NPT Male x 3/4 NPT Male	16–21 in. 410–530 mm	BJ 288-S-P12	19 lb 9 kg
		22–29 in. 560–740 mm	BJ 288-M-P12	27 lb 12 kg
		30–37 in. 770–940 mm	BJ 288-L-P12	36 lb 16 kg
BJVE-M24	M24 Male x M24 Female	16–21 in. 410–530 mm	BJ 288-S-M24	20 lb 9 kg
		22–29 in. 560–740 mm	BJ 288-M-M24	28 lb 13 kg
		30–37 in. 770–940 mm	BJ 288-L-M24	37 lb 17 kg
BJVE-MP12	3/4 MP Male x 3/4 MP Male	16–21 in. 410–530 mm	BJ 288-S-MP12	18 lb 8 kg
		22–29 in. 560–740 mm	BJ 288-M-MP12	25 lb 11 kg
		30–37 in. 770–940 mm	BJ 288-L-MP12	28 lb 13 kg
BJV-H9	9/16 HP Male x 9/16 HP Male	16–21 in. 410–530 mm	BJ 288-S-H9	18 lb 8 kg
		22–29 in. 560–740 mm	BJ 288-M-H9	25 lb 11 kg
		30–37 in. 770–940 mm	BJ 288-L-H9	28 lb 13 kg

SMALL 8-WHEEL CENTRALIZER (BJ 288-S) COMPONENT PARTS

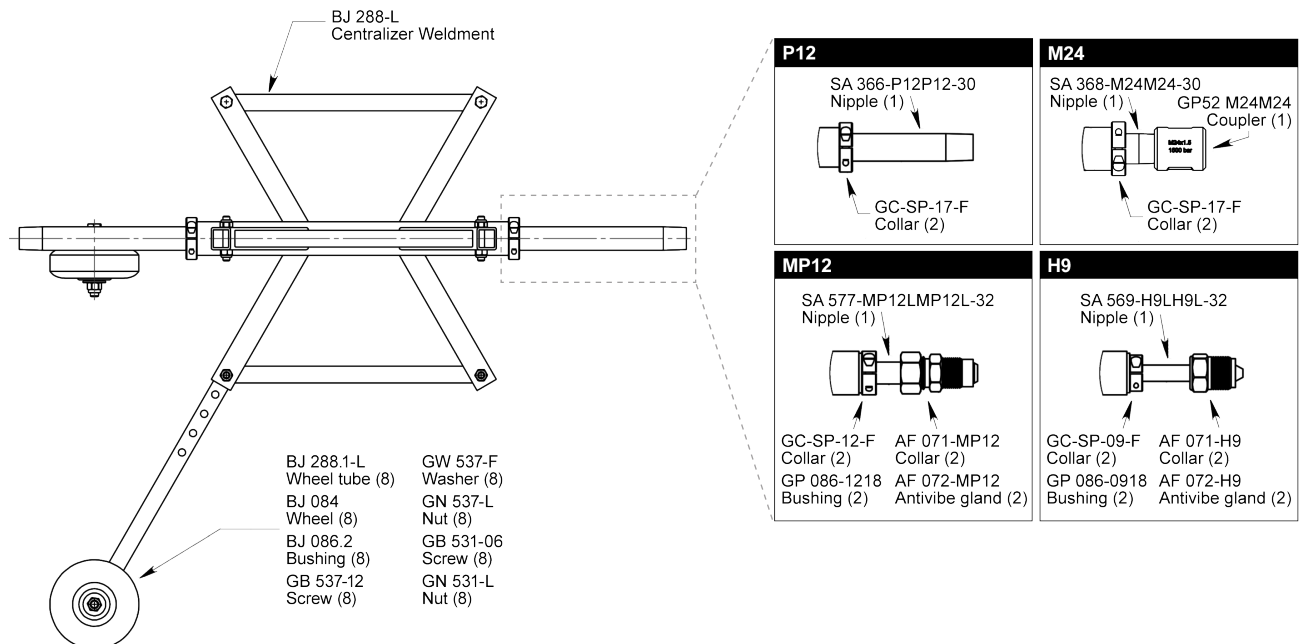


BJV TOOL CONFIGURATION

MEDIUM 8-WHEEL CENTRALIZER (BJ 288-M) COMPONENT PARTS



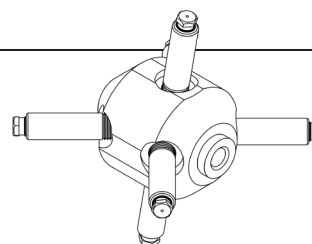
LARGE 8-WHEEL CENTRALIZER (BJ 288-L) COMPONENT PARTS



BJV TOOL CONFIGURATION

STEP 6 EXTENSION NIPPLES

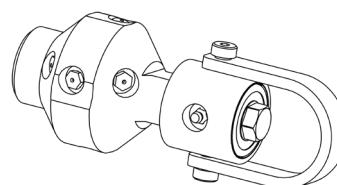
Extension nipples are available for use with all BJV tools. See *Nozzles and Extensions* for a complete list of extension options.



STEP 7 PULLING RING

A pulling ring is available for 6-port and 8-port BJV heads.

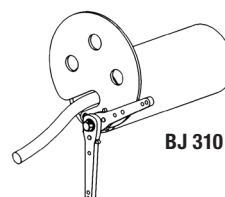
DESCRIPTION	PART ID	WEIGHT
Pulling ring for 6-port or 8-port BJV head	HC 090	2.0 lb 0.9 kg



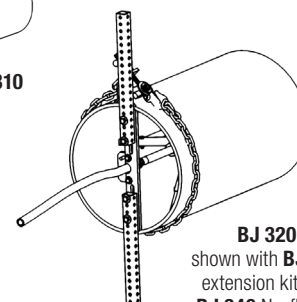
STEP 8 BACKOUT PREVENTER

Backout preventers increase operator safety by keeping the tool from backing out of the pipe. Several options are available including fixtures for small diameter pipes, pipes with various flange bolt circle diameters, and adapters for pipes with no-flange entry.

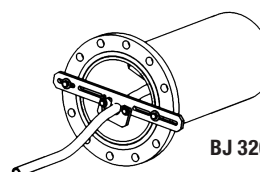
PIPE SIZE	HOSE OD	BACKOUT PREVENTER	DESCRIPTION	WEIGHT
4–8 in. 100–200 mm	0.3–1.5 in. 8–38 mm	BJ 310	Backout preventer for small to medium pipes	7.6 lb 3.4 kg
5–17 in. 130–430 mm	0.3–1.5 in. 8–38 mm	BJ 320	Backout preventer for medium to large pipes	6.3 lb 2.6 kg
15–36 in. 380–910 mm	N/A	BJ 325	Extension kit for BJ 320 backout preventer	8.5 lb 3.6 kg
8–36 in. 130–910 mm	N/A	BJ 340	No-flange kit for BJ 320 backout preventer	17 lb 7.7 kg



BJ 310



BJ 320
shown with **BJ 325**
extension kit and
BJ 340 No-flange
attachment kit

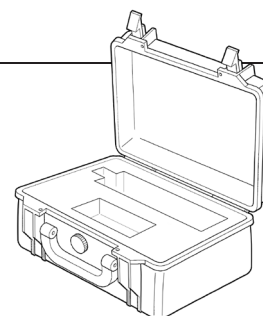


BJ 320

STEP 9 ACCESSORIES

A Pelican™ brand protection/carrying case with custom cut foam insert is available for BJV tool models.

EXTERIOR DIMENSIONS (L X W X D)	INTERIOR DIMENSIONS (L X W X D)	COLOR	CASE PART ID
17.5 x 11.7 x 7.1 in. 44.5 x 29.7 x 18.0 cm	16.9 x 10.0 x 6.5 in. 42.9 x 25.4 x 16.5 cm	Black	BJ 080



BJV TOOL CONFIGURATION

STEP 10 MAINTENANCE RESOURCES

TOOL	ROTATION SPEED	KIT DESCRIPTION	KIT PART ID	KIT CONTENTS
BJVE-P16 BJVE-P12 BJVE-M24 BJVE-MP12	Medium	Overhaul Kit	BJVE 610	1 x BJVE 006 Seal 1 x WGR 006 Shaft Seal, Small 1 x GP 049.2 Cap, Syringe, Lock Cap 1 x BJ 007 Bearing, Angle Contact, BECBY 1 x BJVE 008 O-Ring, 2.629 x 2.489, 70D 1 x WHR 006 Seal, Shaft 1 x SC212 007 Bearing 1 x GP 049.1 Syringe, Plastic, .68oz 1 x BJ 026 Port Plug 1 x BJVE 010 Seal 1 x WHR 014 Wave Spring for Bearing 1 x GP 043 Blue Goop, 2 oz. 1 x BJ 048-M Viscous Fluid, Medium - 6oz 1 x PL 677 BJVE Family User Manual
BJV-H9	Slow	Overhaul Kit	BJ 610-H9-S	1 x BJ 007 Bearing, Angle Contact, BECBY 1 x BJ 008 O-Ring 1 x BJ 010-D Seal, Shaft 1 x BJ 014-D Wave Spring 1 x BJ 021-S Weep Seal 1 x BJ 026 Port Plug 1 x BJ 030 O-Ring 1 x BJ 032 Retaining Ring, Internal 2.125 1 x BJ 048-S Viscous Fluid, Slow - 6oz. 1 x BJ 062-S Antiseize, 2g 1 x BJ 071 Backup O-Ring 1 x BJ 072 O-Ring 1 x BJ 411 H.P. Seat - 40k psi 1 x BJ 412-O H.P. Seal & Oring - 40k psi 1 x BJ 417 O-Ring 1 x BJ 420 H.P. Seal Holder - 40k psi 1 x GO 123 O-Ring 1 x RJ 029 Seal, Piston 1 x SG 009 Bearing, Ball 1 x PL 519 BJV-H9 Manual Insert 40k psi
BJV-H9	Fast	Overhaul Kit	BJ 610-H9-F	1 x BJ 007 Bearing, Angle Contact, BECBY 1 x BJ 008 O-Ring 1 x BJ 010-D Seal, Shaft 1 x BJ 014-D Wave Spring 1 x BJ 021-S Weep Seal 1 x BJ 026 Port Plug 1 x BJ 030 O-Ring 1 x BJ 032 Retaining Ring, Internal 2.125 1 x BJ 048-F Viscous Fluid, Slow - 6oz. 1 x BJ 062-S Antiseize, 2g 1 x BJ 071 Backup O-Ring 1 x BJ 072 O-Ring 1 x BJ 411 H.P. Seat - 40k psi 1 x BJ 412-O H.P. Seal & Oring - 40k psi 1 x BJ 417 O-Ring 1 x BJ 420 H.P. Seal Holder - 40k psi 1 x GO 123 O-Ring 1 x RJ 029 Seal, Piston 1 x SG 009 Bearing, Ball 1 x PL 519 BJV-H9 Manual Insert 40k psi

BJV TOOL CONFIGURATION

Continued from previous page:

TOOL	ROTATION SPEED	KIT DESCRIPTION	KIT PART ID	KIT CONTENTS
BJVE-P16	Medium	Seal Overhaul Kit	BJVE 605	1 x BJVE 016-HF-0 Seat Face, High Flow Assembly 1 x BJ 072 O-Ring 1 x BJVE 015-P16 Inlet Cartridge, P16, Engraved 1 x BJ 211 Brass Seat 1 x BJVE 212-TO H.P. Seal W O-Ring Assembly 1 x BJ 071 Backup O-Ring 1 x PL 677 BJVE Family User Manual
BJVE-P12	Medium	Seal Overhaul Kit	BJVE 604-P12	1 x BJ 071 Backup O-Ring 1 x BJ 072 O-Ring 1 x BJVE 212-TO H.P. Seal W O-Ring Assembly 1 x BJVE 015-P12 Inlet Cartridge, P12, Engraved 1 x BJVE 016-0 Seat Face with O-Ring/Back Up Ring Assembly 1 x MJ 011-C Carbide Seat (Coated) 1 x PL 677 BJVE Family User Manual
BJVE-M24	Medium	Seal Overhaul Kit	BJVE 604-M24	1 x BJ 071 Backup O-Ring 1 x BJ 072 O-Ring 1 x BJVE 212-TO H.P. Seal W O-Ring Assembly 1 x BJVE 015-M24 Inlet Cartridge, M24, Engraved 1 x BJVE 016-0 Seat Face with O-Ring/Back Up Ring Assembly 1 x MJ 011-C Carbide Seat (Coated) 1 x PL 677 BJVE Family User Manual
BJVE-MP12	Medium	Seal Overhaul Kit	BJVE 604-MP12	1 x BJ 071 Backup O-Ring 1 x BJ 072 O-Ring 1 x BJVE 212-TO H.P. Seal W O-Ring Assembly 1 x BJVE 015-MP12 Inlet Cartridge, MP12, Engraved 1 x BJVE 016-0 Seat Face with O-Ring/Back Up Ring Assembly 1 x MJ 011-C Carbide Seat (Coated) 1 x PL 677 BJVE Family User Manual
BJV-H9	Slow	Service Kit, Sow	BJ 600-H9-S	1 x BC 410.15 Syringe, 20CC 1 x BC 415 Syringe Tube Assembly 1 x BJ 048-S Viscous Fluid, Slow - 6oz. 1 x BJ 062-S Antiseize, 2g 1 x BJ 071 Backup O-Ring 1 x BJ 072 O-Ring 1 x BJ 411 H.P. Seat - 40k psi 1 x BJ 412-0 H.P. Seal & Oring - 40k psi 1 x BJ 417 O-Ring 1 x BJ 420 H.P. Seal Holder - 40k psi 1 x GO 123 O-Ring 1 x PL 519 BJV-H9 Manual Insert 40k psi
BJV-H9	Fast	Service Kit, Fast	BJ 600-H9-F	1 x BC 410.15 Syringe, 20CC 1 x BC 415 Syringe Tube Assembly 1 x BJ 048-F Viscous Fluid, Slow - 6oz. 1 x BJ 062-S Antiseize, 2g 1 x BJ 071 Backup O-Ring 1 x BJ 072 O-Ring 1 x BJ 411 H.P. Seat - 40k psi 1 x BJ 412-0 H.P. Seal & Oring - 40k psi 1 x BJ 417 O-Ring 1 x BJ 420 H.P. Seal Holder - 40k psi 1 x GO 123 O-Ring 1 x PL 519 BJV-H9 Manual Insert 40k psi

BJV TOOL CONFIGURATION

Continued from previous page:

TOOL	ROTATION SPEED	KIT DESCRIPTION	KIT PART ID	KIT CONTENTS
BJVE-P16	Medium	Seal Kit	BJVE 603	1 x BJ 072 O-Ring 1 x BJVE 212-T0 H.P. Seal with O-Ring Assembly 1 x BJ 211 Brass Seat 1 x BJ 071 Backup O-Ring 1 x PL 677 BJVE Family User Manual
BJVE-P12 BJVE-M24 BJVE-MP12	Medium	Seal Kit	BJVE 602	1 x BJ 071 Backup O-Ring 1 x BJVE 212-T0 H.P. Seal with O-Ring Assembly 1 x BJ 072 O-Ring 1 x MJ 011-C Carbide Seat (Coated)
BJV-H9	Slow, Fast	Seal Kit	BJ 602-H9	1 x BJ 071 Backup O-Ring 1 x BJ 072 O-Ring 1 x BJ 411 H.P. Seat - 40k psi 1 x BJ 412-0 H.P. Seal & O-ring - 40k psi 1 x BJ 417 O-Ring 1 x BJ 420 H.P. Seal Holder - 40k psi 1 x GO 123 O-Ring 1 x PL 519 BJV-H9 Manual Insert 40k psi
BJVE-P16 BJVE-P12 BJVE-M24 BJVE-MP12	Medium	Tool Kit	BJVE 612	1 x BJVE 180 Shaft Seal Installation Press Tube 1 x WGR 186 HP Seal Puller 1 x PL 677 BJVE Family User Manual
BJ H9	Slow, Fast	Tool Kit	BJV 612-H9	1 x BJ 105 Tool 1 x RJ 105 Assembly Tool

Tool maintenance and assembly videos are available on our website:

WWW.STONEAGETOOLS.COM

For questions or help with a specific application, configuration or tool repairs, please contact StoneAge Customer Service.

When ordering a BJV tool by line item, you should specify:

1. Swivel Part ID
2. Head Part ID
3. Nozzle/Plug Part IDs
4. Part ID of hose/lance adapter, if required
5. Part IDs for any accessories or maintenance items

EXAMPLE 1:

BJV tool for 15,000 psi 40 gpm with 100 ft 3/4 in. ID hose. Fast rotation speed. Centralizer for 12-inch ID pipe. 45° ports plugged and nozzles in the 90° and 135° ports. Overhaul kit.

QTY	PART ID	DESCRIPTION
1	BJVE-P12-M	BJV swivel
1	BJ 144-P4-6-R20	6 port head. 6 x 1/4 NPT ports
2	GP 025-P4SS	Port plug 1/4 NPT
2	AP4 057	Attack tip 1/4 NPT
2	AP4 063	Attack tip 1/4 NPT
1	BJ 070-12	Centralizer for 12" pipe
1	BJ 610-P12-F	Overhaul kit

EXAMPLE 2:

BJV tool for 1200 Bar 75 l/min with 46 m 1/2" ID hose with M24 end. Slow rotation speed. Centralizer and extension nipples for 600 mm ID pipe. Nozzles only in 90° ports. Pulling ring.

QTY	PART ID	DESCRIPTION
1	BJVE-M24-M	BJV swivel
1	BJ 144-P4-6-R60	6 port head. 6 x 1/4 NPT ports
2	SA 058-G12	Port Plug w/ O-ring
2	SA 577-G12P4-8	Ext Nipple, w/O-Ring 3/4 MP
2	AP4 052	Attack tip 1/4 NPT
1	BJ 286-M-M24	Centralizer for 12" pipe
1	GP 255-M240M24C	Metric hose adapter
1	HC 090	Pulling ring for BJV head