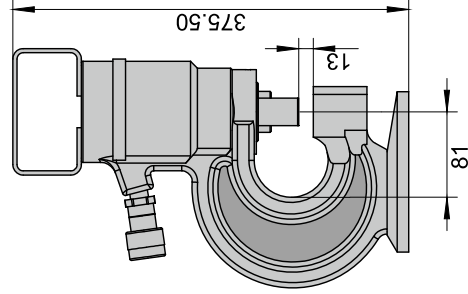
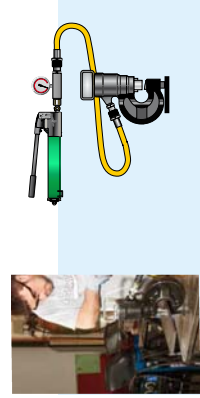




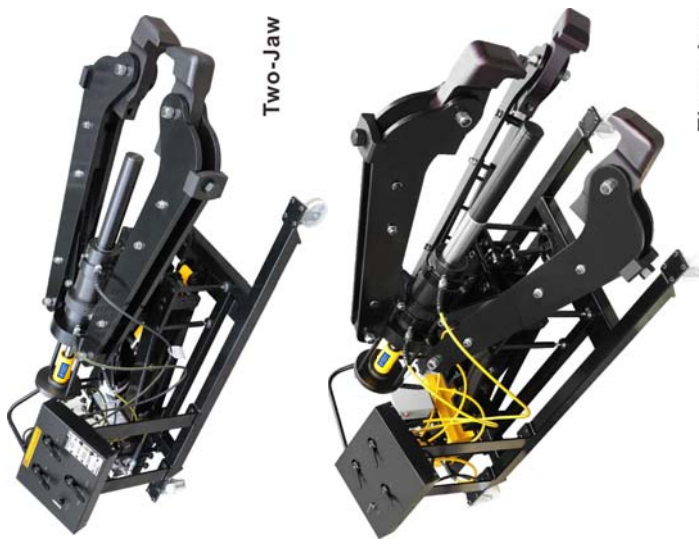
Capacity: **31 T**
 Deep Throat: **75mm**
 Maximum Operating Pressure: **70 Mpa**



- Punch smooth, precise holes in seconds; much faster than drilling.
- Fully portable for construction, maintenance and service applications, or can be mounted on a workbench for production jobs. Has carrying handle for precise locating.
- Rugged, forged steel "C" frame for great strength and durability.
- Dual action, spring loaded stripper holds material during punching operation, strips material from punch on return. Scribe lines on stripper aid in locating the punch.



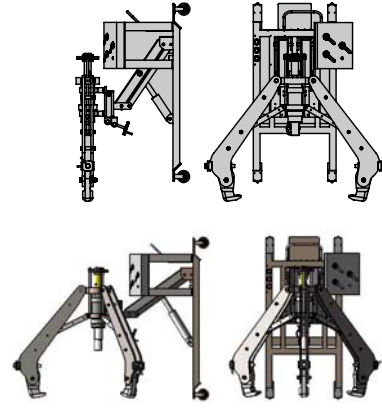
Model	Capacity (T)	Throat Deep (mm)	Material Thickness (mm)	Operating Pressure (Mpa)	Weight (kg)
SH-70B	31	75	Copper Iron	70	10



Capacity: **933-1861kN**
 Reach: **803-880mm**
 Spread: **140-1580mm**
 Maximum Operating Pressure: **70 Mpa**

100T,200T
Hydraulic Heavy Duty Puller
 (Can be equipped with electric lifting)

- Hydraulic lifting system.
- Flow metering system provides constant lowering speed.
- Double acting hydraulic system for holding, opening & closing jaws provides safe and secure grip at all times.
- Self Centring design keeps puller jaws clamped evenly on the work piece.
- Easy jaw head adjusting system prevents puller jaws from sliding.
- Puller can be assembled in 2 or 3 jaw configuration
- Castors provide easy cart movement.
- Includes 230V electric pump.



Special reminder: due to the design update, different batches of product panel layout is different, mainly telescopic cylinder on the left and right side of the display of different actions, as long as in accordance with the panel logo can be operated.

Model	Capacity Tonnes (kN)	Stroke (mm)	Max Spread (mm)	Min Reach (mm)	Min Spread (mm)	Max Reach (mm)	Min Central Height (mm)	Max Central Height (mm)	Weight (T)
Two-jaw	100 T	300	1535	880	150	1035	855	1490	1.1
	200 T	300	1580	803	140	955	855	1490	1.25
Three-jaw	100 T	300	1535	880	150	1035	855	1490	1.4
	200 T	300	1580	803	140	955	855	1490	1.6

Hydraulic Pullers

These hydraulic pullers eliminate time-consuming and unsafe hammering, heating or prying. Damage to parts is minimized through the use of controlled hydraulic power.



When selecting a puller it is important to consider 3 basic specifications:

1. The Capacity: Is the amount of force the puller is capable of producing. Typically, the capacity required for a job can be determined by using the shaft diameter of the part being pulled.
- For manual pullers, the center bolt diameter of the puller should be at least half the diameter of the shaft being pulled from.
- For hydraulic pullers, the capacity in tons should be 0.28 to 0.4 times the shaft diameter in mm.

Use the following chart:

Shaft Diameter	Puller Capacity
0 - 25 mm	10 ton
25 - 50 mm	20 ton
50 - 89 mm	30 ton
89 - 140 mm	50 ton

2. The Reach: is the distance between the bottom of the base and the jaw flats. The puller's reach must equal or exceed the same distance of the part being pulled.

3. The Spread: is the distance between the jaws. The puller's spread needs to be greater than the width of the part being pulled.

Puller Function	Capacity (ton)	Puller Type	Series	Page
	8-50	Master Puller Sets Max. Reach: 700 mm Max. Spread: 250 - 1100 mm	BHP 5751G Master Puller Sets	
	8-50	Grip Puller Sets Max. Reach: 249 - 700 mm Max. Spread: 50 - 580 mm	BHP 551G Grip Puller Sets	
	8-50	Cross Bearing Puller Sets Max. Reach: 354 - 863 mm Max. Spread: 266 - 570 mm	BHP 561G Cross Bearing Puller Sets	
	8-50	Bearing Cup Pullers Max. Reach: 110 - 145 mm Max. Spread: 26 - 359 mm	BHP Bearing Cup Puller	
	8-50	Bearing Pullers Max. Width: 110 - 264 mm Max. Spread: 10 - 245 mm	BHP Bearing Puller	

Master Puller Sets BHP-5751G



WARNING
Do not exceed 50% of the rated puller capacity when using a double crosshead (2 grip arms) or when using puller legs in combination with bearing puller attachment.

Maintenance engineers throughout the industry greatly appreciate the BOQUN Master Puller sets



- Supplied with a full hydraulic set including pump, hose, cylinder, gauge, adaptor and wooden case
- High quality, forged steel components provide superior reliability and service
- Sets include speed crank and adjusting screw for fast contact to work before hydraulics are applied
- All Master Puller Sets include a Grip Puller, a Cross Bearing Puller, a Bearing Cup Puller and a Bearing Puller Attachment, which can be ordered separately, see items nr. 10, 20, 30 and 50.

▼ SELECTION CHART

Master Puller Set Capacity *		8 ton	20 ton	30 ton	50 ton
Model Number		BHP-1752	BHP-2751G	BHP-3751G	BHP-5751G
Included Hydraulics	Set Weight	37 kg	90 kg	172 kg	298 kg
• Hand Pump		P-392	P-392	P-392	P-80
• Cylinder		RCH-1211	RCH-202	RCH-302	RCH-603
• Saddle		HP-2015	HP-2015	HP-3015	HP-5016
• Hose		HB-7206GB	HC-7206	HC-7206	HC-7206
• Gauge		GF-120B	GF-813B	GF-813B	GF-813B
• Gauge Adaptor		GA-3	GA-3	GA-3	GA-3
Included Pullers					
10	Claw puller	BHP-1762	BHP-252	BHP-352	BHP-552
20	Cross positioning puller	BHP-1772	BHP-262	BHP-362	BHP-562
30	Bearing set puller	BHP-180	BHP-280	BHP-380	BHP-580
40	Bearing puller	BHP-181	BHP-282	BHP-382	BHP-582
	• Wooden box package	CM-6	CW-350	CW-350	CW-750

Grip Puller Sets BHP-551G



Capacity: **8, 20, 30 and 50 ton**
 Reach: **252-700mm**
 Spread: **249-1100mm**
 Maximum Operating Pressure: **70 Mpa**

- Precise hydraulic control allows fast, efficient and safe pulling
- High quality, forged steel components provide superior reliability and service
- Available with and without full hydraulic set.

SELECTION CHART

Grip Puller Set Capacity**		8 ton	20 ton	30 ton	50 ton
Model Number	Hydraulics	BHP-1752	BHP-251G	BHP-351G	BHP-551G
• Hand Pump		P-392	P-392	P-392	P-80
• Cylinder		RCH-1211	RCH-202	RCH-302	RCH-603
• Saddle		-	HP-2015	HP-3015	HP-5016
• Hose		HB-7206QB	HC-7206	HC-7206	HC-7206
• Gauge		GF-120B	GF-813B	GF-813B	GF-813B
• Gauge Adaptor		GA-3	GA-3	GA-3	GA-3
10 Grip Puller	Model Number	BHP-1762*	BHP-252*	BHP-352*	BHP-552*
Maximum Spread (mm)	2-jaw	249	400	593	899
	3-jaw	249	499	800	1100
Maximum Reach (mm)	2-jaw	252	300	387	700
	3-jaw	252	300	387	700
Jaw (mm)	Thickness	15	20	24	30
	Width	23	27	38	39
Adjusting Screw (mm)	Thread	3/4" - 16 UNF	1" - 8 UNC	1 1/2" - 7 UNC	1" - 5.5 UNC
	Length	400	675	795	975
Case		CW-166	CW-166	CW-350	CW-750



The cross bearing puller without hydraulics, bearing cup puller and a bearing puller can be ordered separately, see items nr. 10, 20, 30 and 40.

Cross Bearing Puller Sets BHP-561G



Capacity: **8, 20, 30 and 50 ton**
 Reach: **354-863mm**
 Spread: **266-570mm**
 Maximum Operating Pressure: **70 Mpa**

- Precise hydraulic control allows fast, efficient and safe pulling
- High quality, forged steel components provide superior reliability and service.

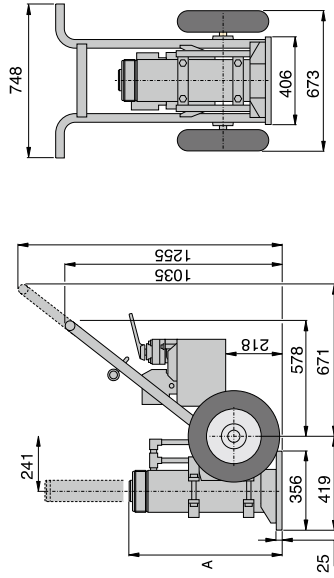
SELECTION CHART

Cross Bearing Puller Set Capacity		8 ton	20 ton	30 ton	50 ton
Model Number	Hydraulics	BHP-162	BHP-261G	BHP-361G	BHP-561G
• Hand Pump		P-392	P-392	P-392	P-80
• Cylinder		RCH-1211	RCH-202	RCH-302	RCH-603
• Saddle		-	HP-2015	HP-3015	HP-5016
• Hose		HB-7206QB	HC-7206	HC-7206	HC-7206
• Gauge		GF-120B	GF-813B	GF-813B	GF-813B
• Gauge Adaptor		GA-3	GA-3	GA-3	GA-3
20 Cross Bearing Puller	Model Number	BHP-1772	BHP-262	BHP-362	BHP-562
Spread (mm)	Maximum	266	351	454	570
	Minimum	106	139	179	220
Reach (mm)	Maximum	462	571	711	863
	Diameter	3/4" - 16 UNF	1" - 8 UNC	1 1/2" - 7 UNC	1" - 5.5 UNC
Adjusting Screw (mm)	Length	400	675	795	975
	Length	105	239	203	609
Leg (mm)	Length	354	419	457	863
	Length	-	571	711	-
	Length	-	114	-	-
Upper Leg Ends (mm)	Thread	3/4" - 16 x 25	1/4" - 16 x 25	1-14 x 35	1 1/4" - 12 x 38
Lower Leg Ends (mm)	Thread	1/4" - 18 x 25	1/4" - 18 x 25	1-14 x 27	1 1/4" - 12 x 38
30 Bearing Cup Puller	Model Number	BHP-180	BHP-280	BHP-380	BHP-580
40 Bearing Puller	Model Number	BHP-181	BHP-282	BHP-382	BHP-582
Wooden Case		CW-6	CW-187	CW-350	MK-05

Can be ordered separately without hydraulic components, see next page.



Capacity: **50-100 ton**
 Stroke: **330-508mm**
 Maximum Operating Pressure: **70 Mpa**



Dimension Unit: mm

- The strong and heavy-duty structure makes the machine have a long service life.
- Large base pad supports oil cylinder.
- Omni-directional wheels are convenient for transportation and placement.
- Hydraulic control check valve provides pressure self-locking in case of emergency.
- The cylinder and pump are easy to disassemble and can be easily used in other occasions or for maintenance.

Pump type	Capacity (ton)	Stroke (mm)	Model	Collapsed Height (mm)	Speed mm/sec		Weight (kg)
					load	no-load	
Electric pump	50 (498)	330	RJI-5013	535	0.05	0.51	270
	100 (933)	508	RJI-5020	759	0.05	0.51	283
	100 (933)	330	RJI-10013	549	0.08	0.95	295
	100 (933)	457	RJI-10018	713	0.08	0.95	327



A gauge is easily installed into your hydraulic system using a gauge adaptor.

Operating Pressure: **70 Mpa**

GA, NV, V Series

Model Number	Gauge Port (NPTF)	Male End (NPTF)	Female End (NPTF)	Dimensions (mm)							
				A	B	C	D	E	F		
GA-1	1/4"	3/4"	3/4"	71	31	1/2" NPTF	3/4" NPTF	3/4" NPTF	32	32	
GA-2	1/2"	3/4"	3/4"	155	35	1/2" NPTF	3/4" NPTF	3/4" NPTF	32	32	
GA-3	1/4"	3/4"	3/4"	133	48	1/4" NPTF	3/4" NPTF	3/4" NPTF	32	32	
GA-4	1/2"	1/4"	1/4"	111	35	1/2" NPTF	1/4" NPTF	3/8" NPTF	32	32	

Gauge Adaptors (GA-Series)
 • For easy mounting of a pressure gauge onto your system
 • Male end screws into pump or cylinder port, female end accepts hose or coupler, 3" port is for gauge connection
 • GA-918 provides for swivel connection

Swivel Adaptor (GA-918)
 • Simplifies gauge installation and reading

Model Number	Dimensions (mm)							
	A	B	C	D	E	S	S1	
GA-918	117	43	1/2" NPTF	28.5	1/2" NPTF	29	38	

Needle Valves (V- and NV-Series)
 • Both NV-251 and V-91 provide positive shut-off
 • 303 stainless steel stem, 16 threads/in (NV-251)

Model Number	Orifice (mm)	Thread Size	Dimensions (mm)							
			A	B	C	D	E	F	H	
NV-251	4.3	1/4" NPTF	57	29	1/4" NPTF	57	46	19	19	
V-91	4.8	1/2" NPTF	89	32	1/2" NPTF	64	32	37	37	



Manifolds and Fittings

FZ Fittings Series

Fittings		70 Mpa	Model Number	Dimensions (mm)			
Street Elbow From: 3/8"-NPTF To: 3/8"-NPTF	Male		FZ-1616	A	B	C	D
	Female			23	33	3/8"-18 NPTF	3/8"-18 NPTF
Reducing Connector	From: 3/8"-NPTF To: 1/2"-NPTF		FZ-1615	28	25	3/8"-18 NPTF	1/2"-18 NPTF
	From: 1/2"-NPTF To: 3/8"-NPTF			47	29	1/2"-14 NPTF	3/8"-18 NPTF
	From: 1/2"-NPTF To: 3/8"-NPTF			38	16	1/2"-18 NPTF	3/8"-18 NPTF
Hexagon Nipple	From: 3/8"-NPTF To: 1/2"-NPTF		FZ-1608	51	19	3/8"-18 NPTF	1/2"-18 NPTF
	From: 1/2"-NPTF To: 3/8"-NPTF			37	19	3/8"-18 NPTF	3/8"-18 NPTF
	From: 1/2"-NPTF To: 3/8"-NPTF			29	23	3/8"-18 NPTF	3/8"-18 NPTF
Coupling	From: 3/8"-NPTF To: 3/8"-NPTF		FZ-1614	29	19	3/8"-18 NPTF	3/8"-18 NPTF
	From: 1/2"-NPTF To: 1/2"-NPTF			29	19	1/2"-18 NPTF	1/2"-18 NPTF
	From: 3/8"-NPTF To: 1/2"-NPTF			45	25	3/8"-18 NPTF	-
Tee	From: 3/8"-NPTF To: 3/8"-NPTF		FZ-1612	45	25	3/8"-18 NPTF	-
	From: 1/2"-NPTF To: 1/2"-NPTF			45	24	1/2"-18 NPTF	-
	From: 3/8"-NPTF To: 1/2"-NPTF			56	26	3/8"-18 NPTF	3/8"-18 NPTF
Elbow	From: 3/8"-NPTF To: 3/8"-NPTF		FZ-1610	33	20	3/8"-18 NPTF	-
	From: 1/2"-NPTF To: 1/2"-NPTF			36	24	1/2"-18 NPTF	-
Reducer	From: 3/8"-NPTF To: 1/2"-NPTF		FZ-1630	19	19	1/2"-18 NPTF	3/8"-18 NPTF
	From: 1/2"-NPTF To: 3/8"-NPTF			28	22	1/2"-18 NPTF	3/8"-14 NPTF
	From: 3/8"-NPTF To: G 3/4"			19	19	G 3/4"	3/8"-18 NPTF
	From: 1/2"-NPTF To: G 3/4"			35	19	1/2"-18 NPTF	G 3/4"
Adaptor	From: G 1/4" To: G 3/8"		FZ-1641	31	19	1/2"-27 NPTF	G 3/8"
	From: G 3/8" To: G 1/2"			43	24	1/2"-18 NPTF	G 3/8"
	From: G 1/2" To: G 3/4"			43	24	3/8"-18 NPTF	G 3/4"
	From: G 3/4" To: G 1"			44	23	1/2"-18 NPTF	3/8"-18 NPTF
Swivel Fitting	From: 1/2"-NPTF To: 3/8"-NPTF		FZ-1660	44	23	1/2"-18 NPTF	3/8"-18 NPTF
	From: 3/8"-NPTF To: 1/2"-NPTF			30	19	1/2"-27 NPTF	3/8"-18 NPTF
	From: 1/2"-NPTF To: 3/8"-NPTF			42	28	3/8"-18 NPTF	1/2"-18 NPTF

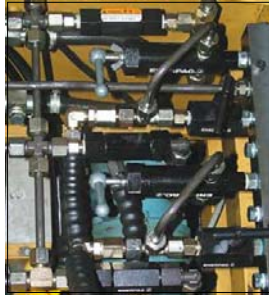
Manifolds

Description	Model Number	Dimensions (mm)
7-port Manifold, short	A-64	
7-port Manifold, long allows direct mounting of control valves to the manifold.	A-65	
6-port Manifold, hexagon Plugs furnished for all ports 3/8"-18 NPTF	A-66	
Control Manifolds For control of two or four single-acting cylinders simultaneously. AM-21 with 5 ports 3/8"NPTF. AM-41 with 7 ports 3/8"NPTF.	AM-21	
	AM-41	
Control Manifolds For control of two or four single-acting cylinders simultaneously. AM-2 with 5 ports 3/8"NPTF. AM-4 with 7 ports 3/8"NPTF.	AM-2	
	AM-4	

Operating Pressure: **70 Mpa**

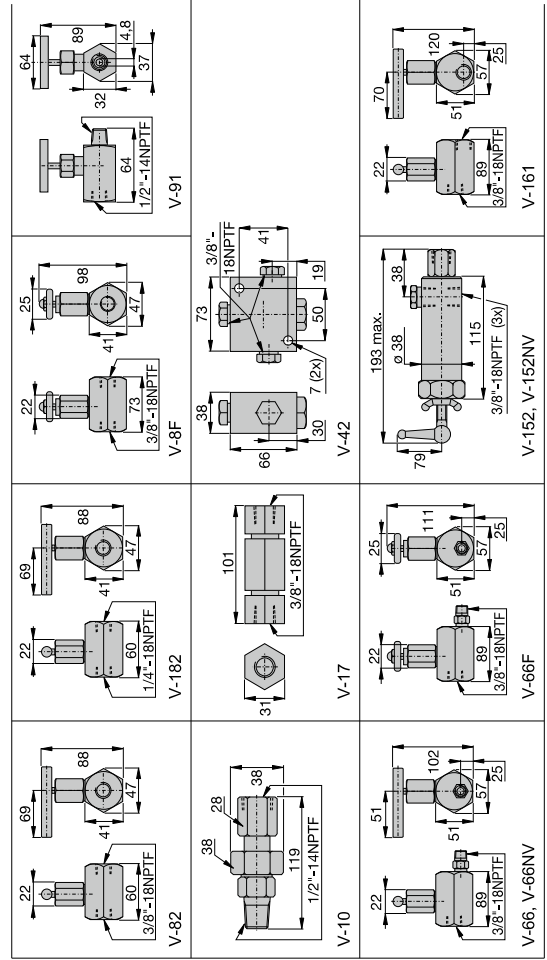


The V-152 pressure relief valve limits the pressure or force developed in the hydraulic system.



V Series Flow Control Valves

- All valves are rated for 70 Mpa operating pressure
- All valves feature NPTF porting to insure against leakage at rated pressure
- All valves are painted, coated, or plated for corrosion resistance
- seals (in V-66NV and V-152NV) for high temperature applications, nickel-plated for maximum corrosion resistance.



Valve Type and Model Number	Description	Hydraulic Symbol
Needle Valve V-82 V-182 V-8F	V-82: To control cylinder speed. Can also be used as shut-off valve for temporary load holding. * NPTF female ports. V-182: Same as V-82, but with 1/4" NPTF female ports. Also suitable for gauge snubbing (also V-82). V-8F: Like V-82, but with very fine metering for precise flow control. Not recommended as shut-off valve.	
Snubber Valve V-91	V-91: Infinitely adjustable for metering oil out of a gauge to prevent snapping of gauge pointer when load or pressure is suddenly released. Also suitable as shut-off valve to protect the gauge during high cycling applications. 1/2" NPTF male and female threads for use with GA-1, GA-2 or GA-4 gauge adaptors.	
Auto Damper Valve V-10	V-10: To be used when gauge pressure must be monitored during high cycle applications. Creates a flow resistance when load is released suddenly. No adjustments are necessary. 1/2" NPTF for use with GA-1, GA-2 or GA-4 gauge adaptors. male and female threads	
Check Valve V-17	V-17: Ruggedly built to resist shock and operate with low pressure drop. Closes smoothly without pounding. 3/8" NPTF female port.	
Pilot Operated Check Valve V-42	V-42: Can be mounted at the cylinder to hold the load in case of system pressure loss. Normally used with double-acting cylinders where pilot port receives pressure from a Tee-fitting in the cylinder retract line. 3/8" NPTF female ports. Pilot pressure ratio 14% (6.5:1).	
Manually Operated Check Valve V-66, V-66NV * V-66F	V-66, V-66NV: For load holding applications with single and double acting cylinders. Valves allow oil to flow back to tank when cylinder retracts. V-66NV with Viton seals, nickel-plated. V-66F: Similar to V-66, but with very fine metering capability for precise flow control. V-66F is not designed for load holding.	
Pressure Relief Valve V-152 V-152NV *	V-152: Limits pressure developed by the pump in hydraulic circuit, thus limiting the force imposed on other components. Valve opens whenever preset pressure is reached. To increase pressure setting, turn handle clockwise. Includes: • 0.9 m return line hose kit, • ± 3% repeatability, • 55-700 bar adjustment range.	
Sequence Valve V-161	V-161: To control oil flow to a secondary circuit. Flow is blocked until system pressure rises to the V-161 setting. When this pressure level is reached, the V-161 opens to allow flow to the secondary circuit. A pressure differential is always maintained between the primary and secondary circuit. Min. operating pressure: 140 bar.	