

Max. Working Pressure - 700 bar / 10,000 psi

FITTINGS

Model No.	Desc	cription	Dimensions (mm)
ADL101	Elbow	Comme	1/8*-NPT 27.5 g
ADL102	Elbow		1/4"-NPT 22.5 N
ADL202	Elbow		1/4"-NPT
ADL303	Elbow		3/8"-NPT 27.5 8
ADC303	Elbow	B	3/8"-NPT 23.5 up
ADE303	Elbow		3/8"-NPT 27.5
ADT101	Tee		1/8"-NPT"3
ADT202	Tee		1/4"-NPT" 3
ADT303	Tee		3/8"-NPT" 3
ADG303	Tee		3(8'-NPT 32.5 3(8'-NPT 55)
ADG323	Tee	26	3/8"-NPT 28.5 1/4"-NPT 3/8"-NPT 3/6"-NPT 4/6
ADF102	Adaptor		1/4"-NPT 40
ADF203	Adaptor		3/8"-NPT 40 1/4"-NPT
ADF302	Adaptor		1/4"-NPT 40 3/8"-NPT

Model No.	Descri	ption	Dimensions (mm)
ADF303	Adaptor		3/8"-NPT 40 3/6"-NPT
ADF304	Adaptor		1/2"-NPT 45
ADI202	Connector		1/4*-NPT 40 1/4*-NPT
ADI203	Connector		1/4'-NPT 40 3/8'-NPT
ADI303	Connector	0	3/8"-NPT 40 3/8"-NPT
ADO101	Hexagon Nipple		1/8"-NPT 34 1/8"-NPT
ADO202	Hexagon Nipple		1/4*-NPT 40 1/4*-NPT
ADO2031	Reducing Connector		36 3/8"-NPT
ADO203	Reducing Connector		1/4"-NPT 40 3/8"-NPT
ADO204	Hexagon Nipple		1/4"BSPP 34 1/4"BSPP
ADO205	Hexagon Nipple		1/4"-NPT 34 1/4"-BSPP
ADO303	Hexagon Nipple		3/8"-NPT 40 3/8"-NPT
BG9705	Swivel Connector		3/8"-NPT 3/8"-NPT



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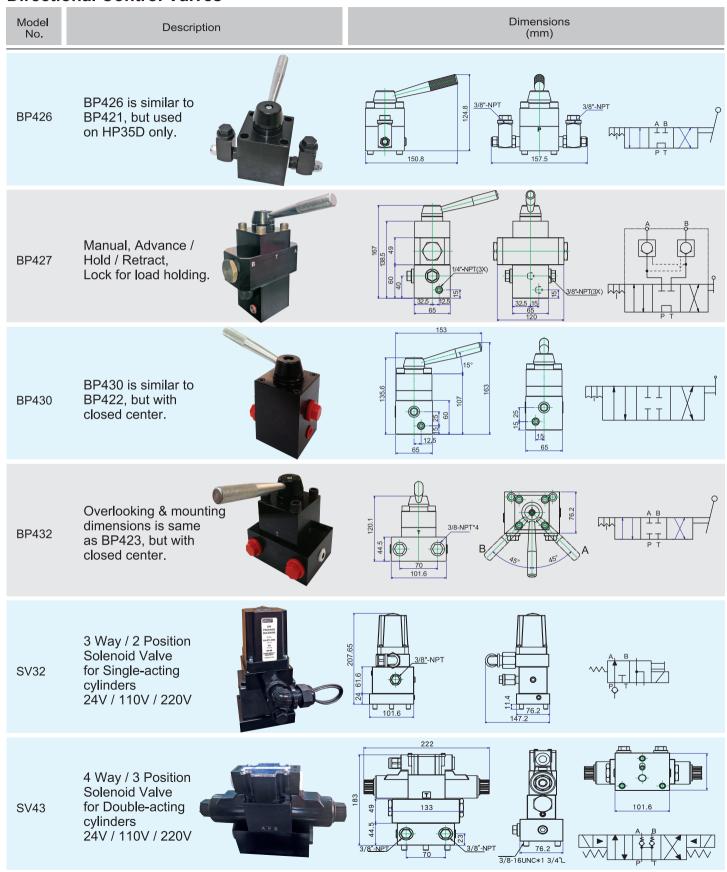
Directional Control Valve

Directional Control Valve					
Model No.	Description	Dimensions (mm)			
B1014	2 Position / 2 Way Valve Pump Mounted, when load holding is not needed.	119 119 119 119 119 119 119 119			
BP421	For using with single- or double acting cylinders. Manual, Advance / Hold / Retract	3/6"-NPT			
BP422		47 47 1/4"-NPT(3X) 1/4"-NPT(3X) 31,75,15 63,5			
BP423	Manual, Advance / Hold / Retract Available models HP80D, AP13D, AP18D, EP13D, EP18D, EP211D, EP320D & EP420D	38.1 3/8"-NPT(4X) 1/4"-NPT 26.9 11.2 55.6 76.2 101.6			
BP42R	BP42R is the upper section of BP423 as enclosed only.	63.5 47.8 Ø10.5			
BP425	Manual, Advance / Hold / Retract, Lock for load holding.	38.1 38.1 38.1 38.1 38.1 38.1 38.1 38.1			



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Directional Control Valves





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Flow Control Valves

Model No.	Description	Dimensions (mm)
VC331	Needle Valve To control cylinder speed, also can be used as shut-off valve for temporary holding. But not recommended to use for precise flow control.	50 21 21 3/8"-NPT
VB66	Manually Operated Check Valve Used with single or double acting cylinders for load holding. Upon cylinder retracting, valve is manually opened to allow oil flowing back to the tank and with auto overload relief design.	63.5 23 23 47 75 3/8"-NPT
VB101	Needle Valve (3/8"NPT ports) To be used as shut-off valve for temporary holding. Same as VB66, but without auto overload relief design.	63.5 88.1 38.1 64 3/8"-NPT
VB102	Needle Valve (1/4"NPT ports) To be used as shut-off valve for temporary holding. Same as VB66 but without auto overload relieft design	63.5 63.5 38.1 64 1/4"-NPT
BG9623	In-line Pressure Relief Valve Used with single or double acting cylinders for remote locations in a hydraulic circuit where maximum pressure requirements are less than basic overload setting in a pump.	3/8"-NPT 97 8 35 37 37 37 37 38"-NPT 12 37 38"-NPT 12 37 38"-NPT 12 37 38"-NPT
PRV9633	In-line Pressure Regulator Valve Used for single or double acting cylinders to permit adjusting operating pressures at various values below relief valve setting of pump.	3/4"-16UNF



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HOSES

- Heavy duty hoses rated at 700 bar, meet IJ-1000 specification as worldwide safety standards.
- Hoses are black rubber coated with two layers of steel braided reinforcement.
- Flexible hoses with spring guard at both ends to protect adaptors.

Description Model		F= 4 O= =	Food Time	Length		I/D	
Description	No.	End One	End Two	(feet)	(mtr)	(inch)	(mm)
Rubber Hoses	HS225	1/4" NPT	1/4" NPT	5	1.5	1/4	6.4
110000	HS235	1/4" NPT	3/8" NPT	5	1.5	1/4	6.4
	HS226	1/4" NPT	1/4" NPT	6	1.8	1/4	6.4
	HS236	1/4" NPT	3/8" NPT	6	1.8	1/4	6.4
	HS332	3/8" NPT	3/8" NPT	2	0.6	1/4	6.4
	HS333	3/8" NPT	3/8" NPT	3	0.9	1/4	6.4
	HS335	3/8" NPT	3/8" NPT	5	1.5	1/4	6.4
12 Processor	HS336	3/8" NPT	3/8" NPT	6	1.8	1/4	6.4
Managed 1999	HS337	3/8" NPT	3/8" NPT	7	2.1	1/4	6.4
	HS338	3/8" NPT	3/8" NPT	8	2.4	1/4	6.4
	HS3310	3/8" NPT	3/8" NPT	10	3.0	1/4	6.4
	HS3312	3/8" NPT	3/8" NPT	12	3.6	1/4	6.4
	HS3315	3/8" NPT	3/8" NPT	15	4.5	1/4	6.4
	HS3320	3/8" NPT	3/8" NPT	20	6.0	1/4	6.4
Rubber Hoses(High Flow)	HFHS332	3/8" NPT	3/8" NPT	2	0.6	3/8	9.4
The state of the s	HFHS333	3/8" NPT	3/8" NPT	3	0.9	3/8	9.4
	HFHS335	3/8" NPT	3/8" NPT	5	1.5	3/8	9.4
	HFHS336	3/8" NPT	3/8" NPT	6	1.8	3/8	9.4
West Marie	HFHS338	3/8" NPT	3/8" NPT	8	2.4	3/8	9.4
Maradal.	HFHS3310	3/8" NPT	3/8" NPT	10	3.0	3/8	9.4
Polyurethane Hose	PHS332	3/8" NPT	3/8" NPT	2	0.6	1/4	6.3
	PHS333	3/8" NPT	3/8" NPT	3	1.0	1/4	6.3
	PHS335	3/8" NPT	3/8" NPT	5	1.5	1/4	6.3
	PHS336	3/8" NPT	3/8" NPT	6	1.8	1/4	6.3
A. C.	PHS337B	3/8" NPT	3/8" NPT	7	2.1	1/4	6.3
	PHS338	3/8" NPT	3/8" NPT	8	2.4	1/4	6.3
	PHS3310	3/8" NPT	3/8" NPT	10	3.0	1/4	6.3
	PHS3312	3/8" NPT	3/8" NPT	12	3.6	1/4	6.3
	PHS3315	3/8" NPT	3/8" NPT	15	4.5	1/4	6.3
	PHS3320	3/8" NPT	3/8" NPT	20	6.0	1/4	6.3
	PHS3330	3/8" NPT	3/8" NPT	30	9.0	1/4	6.3
Polyurethane Hose	HPHS332	3/8" NPT	3/8" NPT	2	0.6	3/8	9.7
(High Flow)	HPHS333	3/8" NPT	3/8" NPT	3	1.0	3/8	9.7
(HPHS335	3/8" NPT	3/8" NPT	5	1.5	3/8	9.7
	HPHS336	3/8" NPT	3/8" NPT	6	1.8	3/8	9.7
	HPHS338	3/8" NPT	3/8" NPT	8	2.4	3/8	9.7
	HPHS3310	3/8" NPT	3/8" NPT	10	3.0	3/8	9.7
	HPHS3312	3/8" NPT	3/8" NPT	12	3.6	3/8	9.7
	HPHS3315	3/8" NPT	3/8" NPT	15	4.5	3/8	9.7
	HPHS3320	3/8" NPT	3/8" NPT	20	6.0	3/8	9.7
		3/8" NPT	3/8" NPT				



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COUPLERS



HYDRAULIC OIL

- Used for 700 bar cylinders / hand pumps (transparent) and electric pumps (blue color).
- Contains anti-rust, anti-wear, anti-oxidant and anti-foaming
- High quality hydraulic oil with low pour point.

Model No.	Specification
HO1L	ISO 15 Grade, 1L Package
HO2L	ISO 15 Grade, 2L Package
HO4L	ISO 15 Grade, 4L Package
HO5L	ISO 15 Grade, 5L Package



Model

GAUGES

Description	No.	Specification
	M0039	Liquid filled dampens needle vibration. Calibrated to read in bar, psi. Dial - 2-1/2"; Thread Size: 1/4NPT Accuracy, Meet DIN Standard ±1.6% of full scale.
700 700 700 700 700 700 700 700 700 700	M0136	All Features same as M0039 Except with Dial - 100 mm.
2000 2000 2000 2000 2000	P1710	All Stainless Steel Pressure Gauge Vibration-free display & long service life by filling glycerin. Measuring ranges: 0~1600 bar & 0~4000 bar Dial: 100mm Thread: M16 x 1.5 Accuracy class 1.6, meet EN 837-1 standard.

GAUG	E ADAPTORS
Model No.	Dimensions (mm)
E0567	25.A 34 1/4"-NPT 115" 3/8"-NPT 3/8"-NPT 65
E1336	34 1/4"-NPT 115" 1/4"-NPT 15" 1/4"-NPT 65
E1343	25.A 34 1/4"-NPT 15" 1/4"-NPT 1/4"-NPT 15" 1/4"-NPT 15" 1/4"-NPT 15" 1/4"-NPT 15" 1/4"-NPT 15" 1
E1745	25.A 34 1/4"-NPT 15" 3/8"-NPT 115
MA323	3/8"-NPT 3/8"-NPT 25 55

SAFETY TIPS



1. Choose the right ram.



You must know the weight of what you intend to lift and choose a ram with at least 20% more capacity. Be aware of possible load shift requiring more capacity at the particular lifting point.

2. Check each components





Check each component before you set up your hydraulic system. Do not use damaged or worn components. Turn them in for repair or replacement.

3. Safety instructions.



Read all warning labels and instructions. Operating instructions must be understood before using equipment. Never remove labels from equipment. Replace missing, worn, or damaged labels. Always wear safety goggles and protective clothing when using hydraulic equipment.

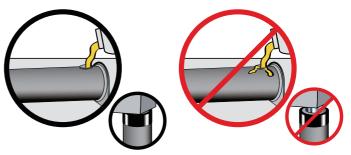
Each jack or ram must be fully supported at the base.





Every jack or ram, whether used individually or in a system, should be completely supported on a solid, firm, non-sliding foundation capable of supporting the load.

5. Fill oil reservoirs with cylinder retracted.



Only fill pump to recommended level, and fill only when the connected cylinder is fully retracted.

6. Know how your hydraulics work.





Do not use extensions or cheater bars on hydraulic jacks or hand pumps to raise a load.

7. Center the load on the lifting point.





The load must be centered on the ram, or equally distributed on multiple rams. Off center loading can result in the ram slipping out and loss of the load.

8. When using multiple rams, distribute the load evenly.





For multiple rams lift, you must be able to determine the location and number of lifting points that will allow the load to be evenly distributed to all the rams. This is called load balance. Size, center of gravity, and load geometry must be considered in order to correctly determine load balance.

SAFETY TIPS



9. Block or crib your load as it raises.



Place blocking or cribbing under the loads as you raise it. Each time you raise it higher, insert more blocking. Position yourself in a manner that will keep you clear of the load, and will not allow your hands or other body parts between the load and the cribbing.

10. Do not use rams as permanent supports.





Hydraulic rams are not meant to be used as permanent supports, but are designed to lift and lower. If you need to hold the load for any length of time, cribbing or Powerram locknut cylinders should be used.

11. Hydraulic connections.





When making connections with quick couplers, make sure the couplings are fully engaged. Threaded connections such as fittings, gauges, etc. must be securely tightened and leak free. Never use excessive tightening force that may distort the fittings or strip the thread profile.

12. Avoid extreme heat or weld splatter.





Weld splatter will damage plunger rods and hoses. Hydralic fluid can ignite if vaporized or exposed to high tempertures.

13. Disconnecting the hydraulics.





Never attempt to disconnect hydraulic hoses, fittings or couplers under pressure. Unload the ram, open the release screw on the hand pump and shift or open all hydraulic controls several times. If system includes a gauge, double check the gauge to insure pressure has been completely released.

14. Do not carry or drag pumps and rams by their hoses.





Dragging or carrying rams or pumps by a connected hose can damage the couplers and hoses. Using damaged couplers and hoses can be dangerous.

15. Keep hydraulic hoses free of obstructions.





Do not drop sharp or heavy objects on hose. Keep hose out of heavy traffic areas. This will cause internal damage to hose wire strands. Applying pressure to a damaged hose may cause it to rupture. Avoid sharp bends and kinks when routing hydraulic hoses.

HYDROLUTION®

INTEGRATED HYDRAULIC SOLUTIONS. ASIA FORCE

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