
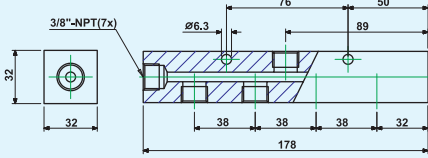

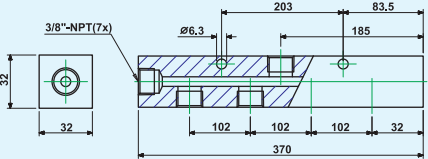

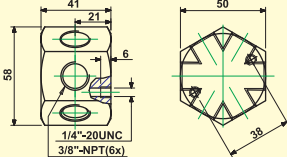

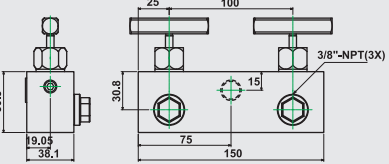

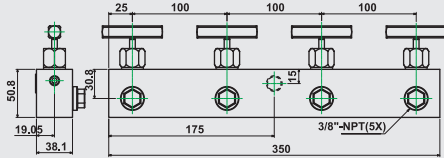

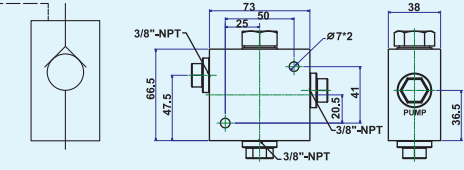

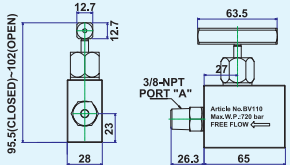

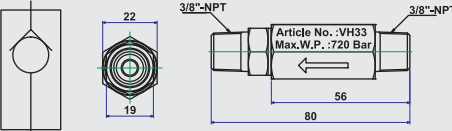


**Max. Working Pressure - 700 bar / 10,000 psi**

## System Components

With the simple and complete line of hydraulic hoses, couplers, fittings, manifolds, gauges and valves, POWERRAM has the accessories to complete your hydraulic system and ensure the operating efficiency, long life and safety of your hydraulic equipment.

## MANIFOLDS

Model No.		Dimensions (mm)	Description
JP64			7 Female ports - 178 mm Long
JP65			7 Female ports - 370 mm long Available directly mounting of control valves
JP66			6-Port Hexagon Type
VB201			Premounted Manifolds
VB401			Available as split-flow valve to control two / four single-acting cylinders simultaneously.
BV42			Pilot Check Valve
BV110			Restrictor Valve
VH33			Non-return Valve

# ACCESSORIES

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


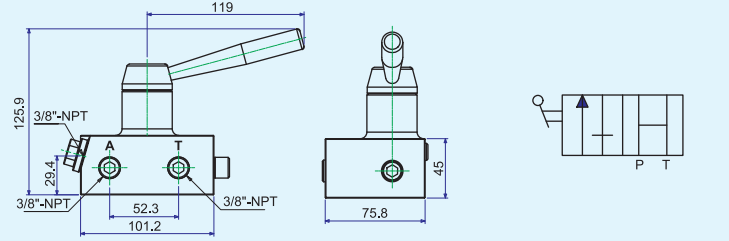

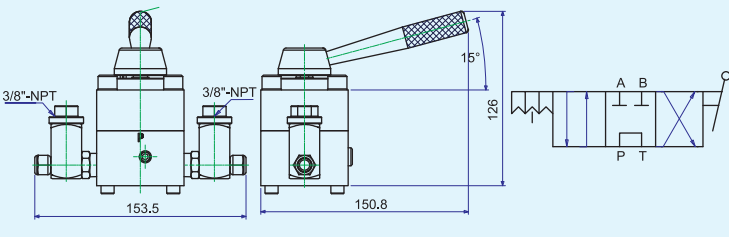

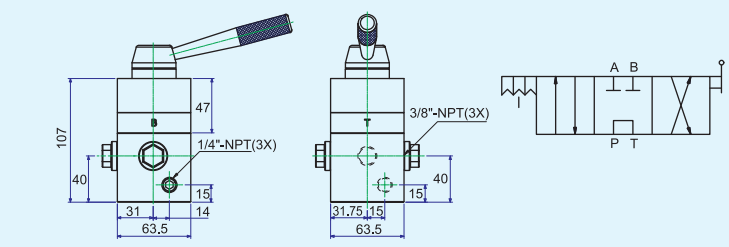
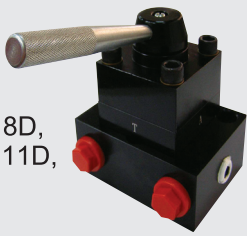
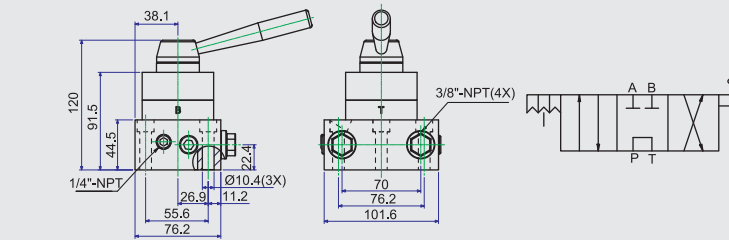
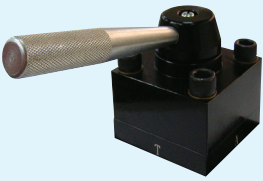
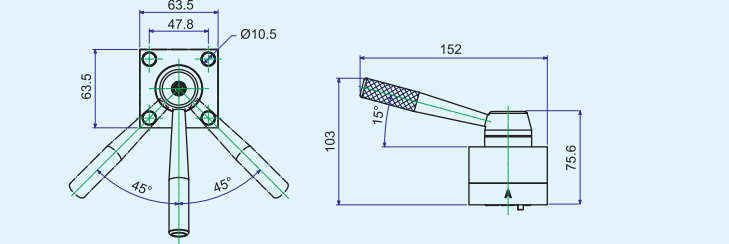

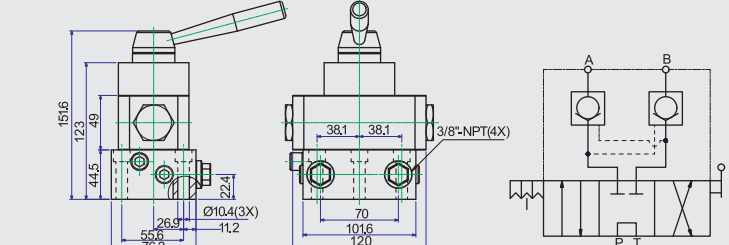
## FITTINGS

Model No.	Description	Dimensions (mm)
ADL101	Elbow	
ADL102	Elbow	
ADL202	Elbow	
ADL303	Elbow	
ADC303	Elbow	
ADE303	Elbow	
ADT101	Tee	
ADT202	Tee	
ADT303	Tee	
ADG303	Tee	
ADG323	Tee	
ADF102	Adaptor	
ADF203	Adaptor	
ADF302	Adaptor	

Model No.	Description	Dimensions (mm)
ADF303	Adaptor	
ADF304	Adaptor	
ADI202	Connector	
ADI203	Connector	
ADI303	Connector	
ADO101	Hexagon Nipple	
ADO202	Hexagon Nipple	
ADO2031	Reducing Connector	
ADO203	Reducing Connector	
ADO204	Hexagon Nipple	
ADO205	Hexagon Nipple	
ADO303	Hexagon Nipple	
BG9705	Swivel Connector	


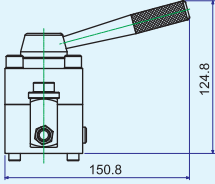
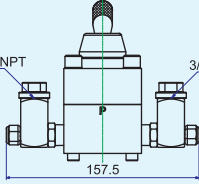
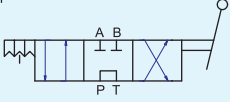

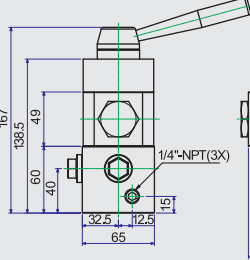
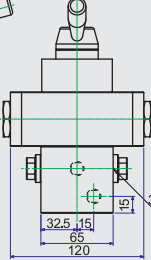
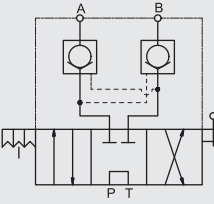

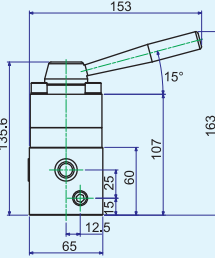
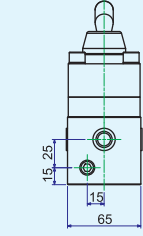
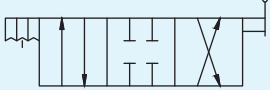
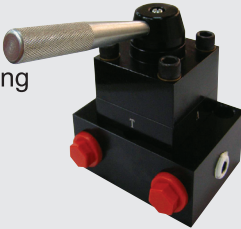
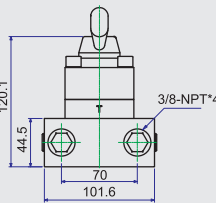
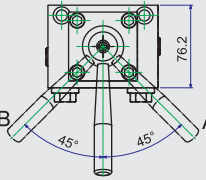
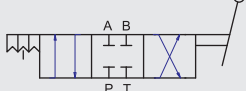

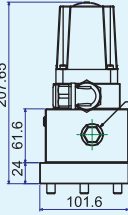
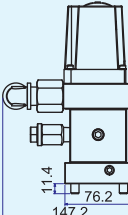
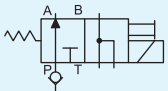

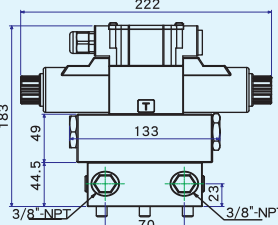
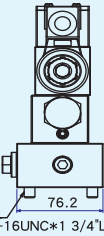
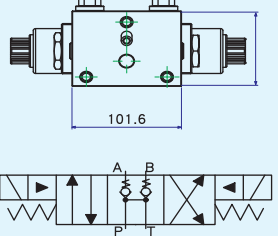
Max. Working Pressure - 700 bar / 10,000 psi

## Directional Control Valve

Model No.	Description	Dimensions (mm)
B1014	 <p>2 Position / 2 Way Valve No need to hold the pressure</p>	
BP421	 <p>For using with single- or double acting cylinders. Manual, Advance / Hold / Retract</p>	
BP422	 <p>Manual, Advance / Hold / Retract</p>	
BP423	 <p>Manual, Advance / Hold / Retract Available models HP80D, AP13D, AP18D, EP13D, EP18D, EP211D, EP320D &amp; EP420D</p>	
BP42R	 <p>BP42R is the upper section of BP423 as enclosed only.</p>	
BP425	 <p>Manual, Advance / Hold / Retract, Lock for load holding.</p>	


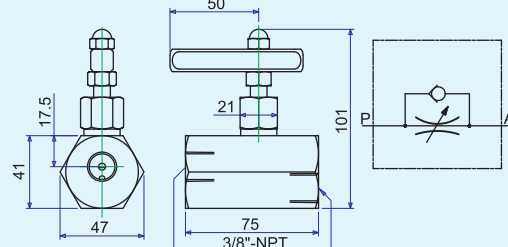

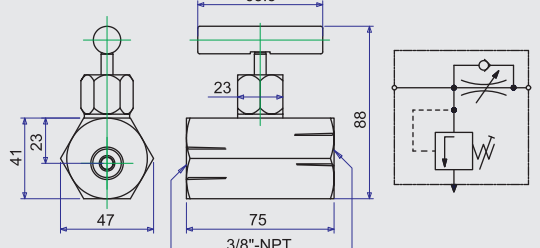

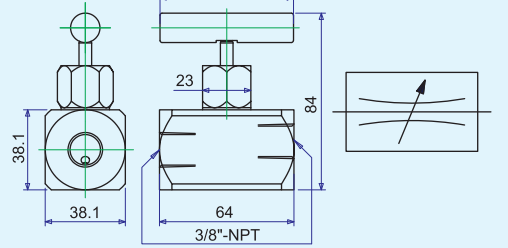

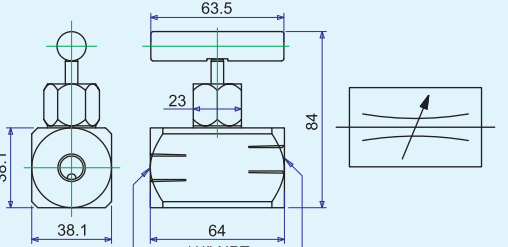

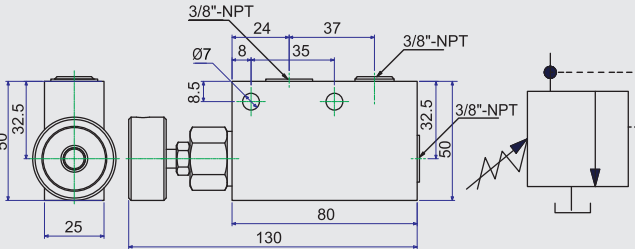

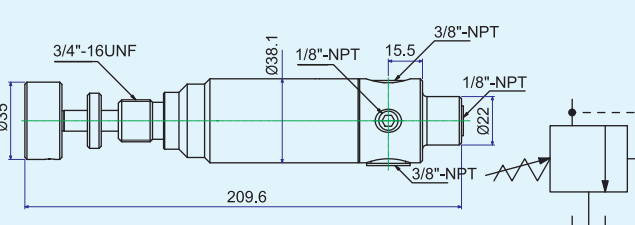
Max. Working Pressure - 700 bar / 10,000 psi

## Directional Control Valves

Model No.	Description	Dimensions (mm)			
BP426	BP426 is similar to BP421, but used on HP35D only.				
BP427	Manual, Advance / Hold / Retract, Lock for load holding.				
BP430	BP430 is similar to BP422, but with closed center.				
BP432	Overlooking & mounting dimensions is same as BP423, but with closed center.				
SV32	3 Way / 2 Position Solenoid Valve for Single-acting cylinders 24V / 110V / 220V				
SV43	4 Way / 3 Position Solenoid Valve for Double-acting cylinders 24V / 110V / 220V				

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


## Flow Control Valves


Model No.	Description	Dimensions (mm)
VC331	<p><b>Needle Valve</b> To control cylinder speed, also can be used as shut-off valve for temporary holding. But not recommended to use for precise flow control.</p> 	 <p>Dimensions: 41, 17.5, 47, 50, 21, 101, 75, 3/8"-NPT</p>
VB66	<p><b>Manually Operated Check Valve</b> 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.</p> 	 <p>Dimensions: 41, 23, 47, 63.5, 23, 88, 75, 3/8"-NPT</p>
VB101	<p><b>Needle Valve (3/8"NPT ports)</b> To be used as shut-off valve for temporary holding. Same as VB66, but without auto overload relief design.</p> 	 <p>Dimensions: 38.1, 38.1, 38.1, 63.5, 23, 84, 64, 3/8"-NPT</p>
VB102	<p><b>Needle Valve (1/4"NPT ports)</b> To be used as shut-off valve for temporary holding. Same as VB66 but without auto overload relief design</p> 	 <p>Dimensions: 38.1, 38.1, 38.1, 63.5, 23, 84, 64, 1/4"-NPT</p>
BG9623	<p><b>In-line Pressure Relief Valve</b> 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.</p> 	 <p>Dimensions: 50, 25, 130, 80, 32.5, 3/8"-NPT, 24, 37, 3/8"-NPT, 07, 8, 35, 8.5, 32.5, 3/8"-NPT, 150</p>
PRV9633	<p><b>In-line Pressure Regulator Valve</b> Used for single or double acting cylinders to permit adjusting operating pressures at various values below relief valve setting of pump.</p> 	 <p>Dimensions: Ø35, 3/4"-16UNF, Ø38.1, 1/8"-NPT, 15.5, 3/8"-NPT, 1/8"-NPT, Ø22, 3/8"-NPT, 209.6</p>

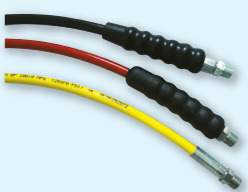
Max. Working Pressure - 700 bar / 10,000 psi


## 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 No.	End One	End Two	Length		I/D	
				(feet)	(mtr)	(inch)	(mm)
<b>Rubber Hoses</b>  	HS225	1/4" NPT	1/4" NPT	5	1.5	1/4	6.4
	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
	HS336	3/8" NPT	3/8" NPT	6	1.8	1/4	6.4
	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	

<b>Rubber Hoses(High Flow)</b>  	HFHS332	3/8" NPT	3/8" NPT	2	0.6	3/8	9.4
	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
	HFHS338	3/8" NPT	3/8" NPT	8	2.4	3/8	9.4
	HFHS3310	3/8" NPT	3/8" NPT	10	3.0	3/8	9.4

<b>Polyurethane Hose</b>  	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
	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

<b>Polyurethane Hose (High Flow)</b>  	HPHS332	3/8" NPT	3/8" NPT	2	0.6	3/8	9.7
	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
	HPHS3330	3/8" NPT	3/8" NPT	30	9.0	3/8	9.7

# ACCESSORIES

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



## COUPLERS

Image	Model No. (Set)	Specification	Model No.
	CP210	NEEDLE (Plastic caps for both ends) RAM HALF: 1/4 NPT HOSE HALF: 1/4 NPT	CP211 CP212
	CP230	NEEDLE (Metal cover for Ram half) RAM HALF: 1/4 NPT HOSE HALF: 1/4 NPT	CP231 CP232
	CP380	NEEDLE (Plastic caps for both ends) RAM HALF: 3/8 NPT HOSE HALF: 3/8 NPT	CP381 CP382
	CP330B	BALL (Plastic caps for both ends) RAM HALF: 3/8 NPT HOSE HALF: 3/8 NPT	CP331B CP332B
	CP350	NEEDLE (Metal cover for Ram half) RAM HALF: 3/8 NPT HOSE HALF: 3/8 NPT	CP351 CP352
	CP430	NO-SPILL RAM HALF: 3/8 NPT HOSE HALF: 3/8 NPT	CP431 CP432

## GAUGES

Description	Model 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.
	M0136	All Features same as M0039 Except with Dial - 100 mm.
	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.

## GAUGE ADAPTORS

Model No.	Dimensions (mm)
E0567	
E1336	
E1343	
E1745	
MA323	

## 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 additives.
- 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