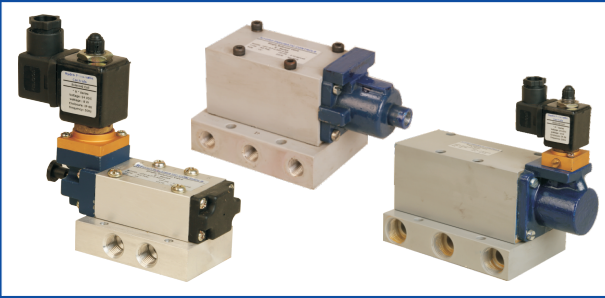


Since 1981

Devoted to the Commitments



Pneumatic Valves (“ S ” series)

Hydro Pneumatic Controls

An ISO 9001-2008 Certified Company

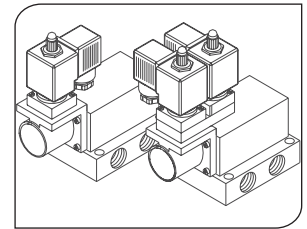


"HPC" Make S series Poppet type Solenoid Valves

Size: 1/4" to 1" BSP Type: 5/2 way offered in 3/8" & 3/4" Basic

Salient Features

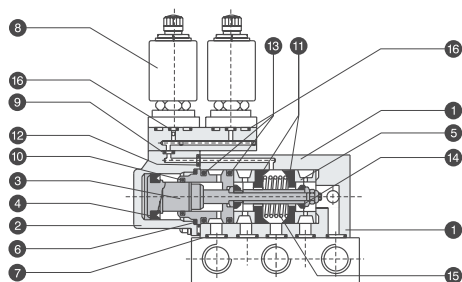
- * Robust design
- * Long Life of seals
- * High flow Valves
- * Ideal for adverse air conditions



No.	Description	Part List	
		Single Sol.	Double Sol.
1	Valve body	1	1
2	Pilot housing	1	1
3	Poppet and piston assly.	1	1
4	'U' cup packing	1	1
5	Spool	1	1
6	Gasket	1	1
7	'O' ring (sub base plate)	5	5
8	Coil assembly	1	2
9	'O' ring (solenoid housing)	1	2
10	'O' ring (poppet assly.)	1	1
11	Inlet seals	2	2
12	'O' ring (pilot housing)	1	1
13	'O' ring (retainer)	2	2
14	Outlet seals	2	2
15	Spring	1	1
16	'O' ring (Double sol. housing)	-	4

Seal kit consists of items 4, 6, 7, 9, 10, 11, 12, 13 & 14 for single solenoid valve.

Seal kit consists of items 4, 6, 7, 9, 10, 11, 12, 13, 14 & 16 for double solenoid valve.



5/2 Double Solenoid Poppet Valve

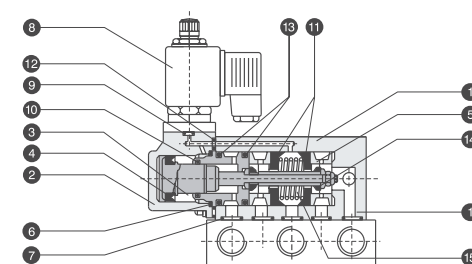
Specifications

Medium	Compressed air, Filtered					
Design	Poppet type with spring return					
Working pressure	1.5 - 10 Kg./sq. cm.					
Ambient / fluid temp.	- 10° to 85° C					
Cv (Nominal flow)	3/8" Basic			3/4" Basic		
	1/4"	3/8"	1/2"	1/2"	3/4"	1"
	1.9	2.04	2.38	5.4	5.8	5.8
Manual override	Screw type, Detent					
Optional feature	PIC with light indicator, Explosion proof coil					
Response time at 5 Bar	On time : 35 ms.					
	Off time : 45 ms.					
Materials	Body, Base, Pilot Housing : Aluminium Seals : NBR					

Coil Specifications

Type	Valve with G25 coil
Tube Assy. construction	SS Plunger with NBR seals, SS magnet core assembled with brass adaptor.
Coil voltages	AC : 24, 42, 48, 110, 240 V 50Hz DC : 12, 24, 48 V
Voltage range	+ 10%
Power consumption	AC : Pull 7.5 VA, Hold : 5 VA DC : 3 WATT
Duty cycle	100%
Class of insulation	F (Winding wire of class 'H' insulation)
Degree of protection	IP 65 - IS 2147
Cable connector	DIN 43650 - PG 11

* Poppet valve is also offered with flame-proof coil duly certified by CMRS Dhanbad for grades I, IIA, IIB. Refer data sheet PMV-07 for details.



5/2 Single Solenoid Poppet Valve

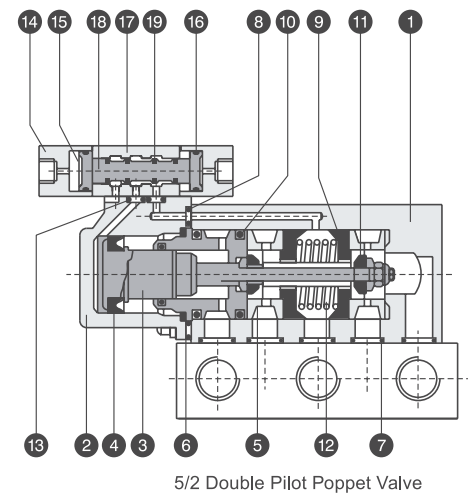
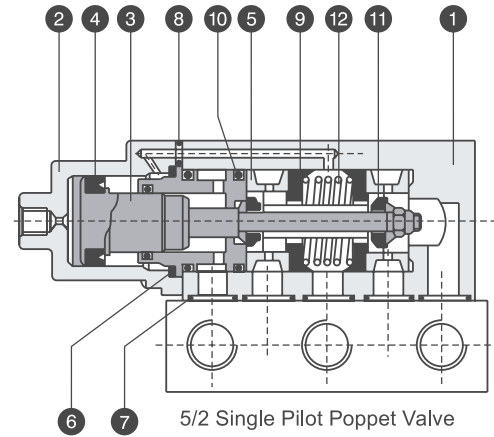
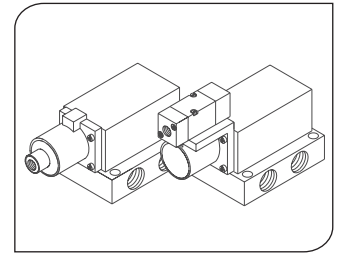
"HPC" Make S series Poppet type pilot Valves

Size: 1/4" to 1" BSP
 offered in 3/8" & 3/4" Basic

Type: 5/2 way

Salient Features

- * Robust design
- * Long Life of seals
- * High flow Valves
- * Ideal for adverse air conditions



No.	Description	Part List	
		Qty.	
		Hand Level Optd.	Foot Lever Optd.
1	Valve body	1	1
2	Pilot housing	1	1
3	Poppet and piston assly.	1	1
4	'U' cup packing	1	1
5	Spool	1	1
6	Gasket for pilot housing	1	1
7	'O' ring (Sub-base plate)	5	5
8	'O' ring (Pilot housing)	1	1
9	Inlet seals	2	2
10	'O' ring (Retainer)	3	3
11	Outlet seals	2	2
12	Spring	1	1
13	'O' ring (Pilot valve)	-	- 2
14	Pilot housing (Exel valve)	-	- 2
15	Piston	-	- 2
16	Piston seal	-	- 2
17	Body (Pilot valve)	-	- 1
18	Spool (Pilot valve)	-	1
19	Dancing seals	-	4

Seal kit consists of items 4, 6, 7, 8, 9, 10 & 11 for single pilot valve.

Seal kit consists of items 4, 6, 7, 8, 9, 10, 11, 13, 16 & (17 + 19) for double pilot valve.

Specifications

Medium	Compressed air, Filtered					
Design	Poppet type with spring return					
Working pressure	1.5 - 10 Kg./sq. cm.					
Ambient / fluid temp.	- 10° to 85° C					
Pilot port connection	G 1/8					
Cv (Nominal flow)	3/8" Basic			3/4" Basic		
	1/4"	3/8"	1/2"	1/2"	3/4"	1"
	1.9	2.04	2.38	5.4	5.8	5.8
Response time	On time : 35 ms.					
at 5 Bar	Off time : 45 ms.					
Materials	Body, Base, Pilot Housing : Aluminium Seals : NBR					

Model Selection Chart

HPC	Series	Type	Port Size	Valve Type	Way
1	2	3	4	5	6
HPC	S	S (Spool Type) P (Poppet Type)	2 - 1/4" 3 - 3/8" 4 - 1/2" 5 - 3/4" 6 - 1" (BSP Threads)	HLV - Hand Level Valve PBV - Push Button Valve RLV - Roller Level Valve PPV - Push Pull Valve DRV - Disk Rotary Valve SSV - Single Solenoid Valve DSV - Double Solenoid Valve DAV - Direct Acting Valve DPH - Diaphragm Operated Valve SPV - Single Pilot Valve DPV - Double Pilot Valve	2 - 2/2 3 - 3/2 4 - 5/2 5 - 5/3

E.g: 1/2 BSP, 5/2 way single pilot valve poppet type is represented as HPC - S - P - 4 - SPV - 4