



## **DESCRIPTION:**

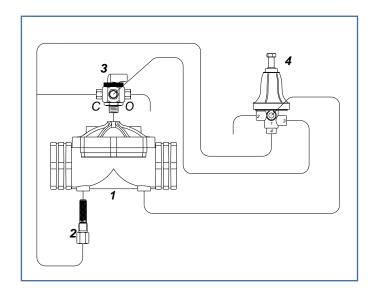
"PR" model pressure reducer control valve is the hydraulic control valve which reduces high upstream pressure value to desired lower pressure value by means of built-in pressure reducing pilot valves. Pressure reducer control valve controls downstream pressure value continuously and maintains it constant without being affected from flow rate and upstream pressure values. When no flow exists in the system, it closes itself automatically. When valve upstream pressure value, it is opened fully by itself. Valve may be used in vertical or horizontal positions in the system.

### 55PR-57PR Pressure Reducing Valve



#### **MAIN CONTROL SYSTEM COMPONENTS:**

- 1) Main Valve
- 2) Finger Filter
- 3) 3 Way Selector Valve
- 4) Multi-Functional Pilot



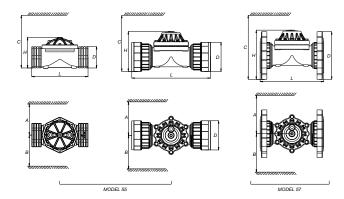
### **TECHNICAL SPECIFICATIONS:**

Pressure Class   PN10						
Maximum Working Temperature(60 °C)Size Range1 ½" - 2" - 2 ½" - 3" - 4"55 Model1 ½" - 2" - 2 ½" - 3" - 4"57 Model4"Main Valve TypeDiaphragm Actuated Diaphragm Closed Single ChamberMaterial PropertiesBody - CoverGlass Reinforced PolyamideDiaphragmReinforced Natural RubberFlange Flange Adapter Thread AdapterGlass Reinforced PolyamideInternalsStainless Steel, Nylon6,Control System3 Way Selector ValvePerform manuel control of the main valve.Multi-Functional PilotThe same size pilot used for all valve size.FittingsPlastic (standard)TubingPolyamide (standard)ConnectionTS EN 1092/2 PN10 (standard)	General Specifications					
Temperature  Size Range  1 ½" - 2" - 2 ½" - 3" - 4"  55 Model  1 ½" - 2" - 2 ½" - 3" - 4"  Diaphragm Actuated Diaphragm Closed Single Chamber  Material Properties  Body - Cover Glass Reinforced Polyamide Diaphragm Reinforced Natural Rubber  Flange Flange Adapter Thread Adapter Internals Stainless Steel, Nylon6,  Control System  3 Way Selector Valve Perform manuel control of the main valve.  Multi-Functional Pilot The same size pilot used for all valve size.  Fittings Plastic (standard) Tubing Polyamide (standard)  Connection  Flanged (57 series) TS EN 1092/2 PN10 (standard)	Pressure Class	PN10				
Size Range  1 ½" - 2" - 2 ½" - 3" - 4"  55 Model  1 ½" - 2" - 2 ½" - 3" - 4"  57 Model  Main Valve Type  Diaphragm Actuated Diaphragm Closed Single Chamber  Material Properties  Body - Cover  Glass Reinforced Polyamide  Diaphragm Reinforced Natural Rubber  Flange Flange Adapter Thread Adapter Internals  Stainless Steel, Nylon6,  Control System  3 Way Selector Valve  Multi-Functional Pilot The same size pilot used for all valve size.  Fittings Plastic (standard) Tubing Polyamide (standard)  Connection  Flanged (57 series)  TS EN 1092/2 PN10 (standard)	Maximum Working	(60.90)				
57 Model 4"  Main Valve Type Diaphragm Actuated Diaphragm Closed Single Chamber  Material Properties  Body - Cover Glass Reinforced Polyamide Diaphragm Reinforced Natural Rubber  Flange Flange Adapter Thread Adapter Internals Stainless Steel, Nylon6,  Control System  3 Way Selector Valve Perform manuel control of the main valve.  Multi-Functional Pilot The same size pilot used for all valve size.  Fittings Plastic (standard) Tubing Polyamide (standard)  Connection  Flanged (57 series) TS EN 1092/2 PN10 (standard)	Temperature	,				
57 Model 4"  Main Valve Type Diaphragm Actuated Diaphragm Closed Single Chamber  Material Properties  Body - Cover Glass Reinforced Polyamide Diaphragm Reinforced Natural Rubber  Flange Flange Adapter Thread Adapter Internals Stainless Steel, Nylon6,  Control System  3 Way Selector Valve Perform manuel control of the main valve.  Multi-Functional Pilot The same size pilot used for all valve size.  Fittings Plastic (standard) Tubing Polyamide (standard)  Connection  Flanged (57 series) TS EN 1092/2 PN10 (standard)	Size Range	1 ½" – 2" – 2 ½" – 3" – 4"				
Main Valve Type  Diaphragm Actuated Diaphragm Closed Single Chamber  Material Properties  Body - Cover Glass Reinforced Polyamide Diaphragm Reinforced Natural Rubber  Flange Flange Adapter Thread Adapter Internals Stainless Steel, Nylon6,  Control System  3 Way Selector Valve Perform manuel control of the main valve.  Multi-Functional Pilot The same size pilot used for all valve size.  Fittings Plastic (standard) Tubing Polyamide (standard)  Connection  Flanged (57 series)  TS EN 1092/2 PN10 (standard)	55 Model	1 ½" – 2" – 2 ½" – 3" – 4"				
Main Valve Type Diaphragm Closed Single Chamber  Material Properties  Body - Cover Glass Reinforced Polyamide Diaphragm Reinforced Natural Rubber  Flange Flange Adapter Thread Adapter Internals Stainless Steel, Nylon6,  Control System  3 Way Selector Valve Perform manuel control of the main valve.  Multi-Functional Pilot The same size pilot used for all valve size.  Fittings Plastic (standard) Tubing Polyamide (standard)  Connection  Flanged (57 series) TS EN 1092/2 PN10 (standard)	57 Model	4"				
Single Chamber  Material Properties  Body - Cover Glass Reinforced Polyamide  Diaphragm Reinforced Natural Rubber  Flange Flange Adapter Glass Reinforced Polyamide  Thread Adapter Internals Stainless Steel, Nylon6,  Control System  3 Way Selector Valve Perform manuel control of the main valve.  Multi-Functional Pilot The same size pilot used for all valve size.  Fittings Plastic (standard)  Tubing Polyamide (standard)  Connection  Flanged (57 series) TS EN 1092/2 PN10 (standard)						
Material PropertiesBody - CoverGlass Reinforced PolyamideDiaphragmReinforced Natural RubberFlangeGlass Reinforced PolyamideFlange AdapterGlass Reinforced PolyamideInternalsStainless Steel, Nylon6,Control SystemPerform manuel control of the main valve.Multi-Functional PilotThe same size pilot used for all valve size.FittingsPlastic (standard)TubingPolyamide (standard)ConnectionTS EN 1092/2 PN10 (standard)	Main Valve Type	Diaphragm Closed				
Body - Cover Glass Reinforced Polyamide Diaphragm Reinforced Natural Rubber  Flange Flange Adapter Thread Adapter Internals Stainless Steel, Nylon6,  Control System  3 Way Selector Valve Perform manuel control of the main valve.  Multi-Functional Pilot The same size pilot used for all valve size.  Fittings Plastic (standard) Tubing Polyamide (standard)  Connection  Flanged (57 series) TS EN 1092/2 PN10 (standard)		Single Chamber				
Diaphragm Reinforced Natural Rubber  Flange Flange Adapter Thread Adapter Internals Stainless Steel, Nylon6,  Control System  3 Way Selector Valve Perform manuel control of the main valve.  Multi-Functional Pilot The same size pilot used for all valve size.  Fittings Plastic (standard)  Tubing Polyamide (standard)  Connection  Flanged (57 series) TS EN 1092/2 PN10 (standard)	Material Properties					
Flange Flange Adapter Thread Adapter Internals  Stainless Steel, Nylon6,  Control System  3 Way Selector Valve  Perform manuel control of the main valve.  Multi-Functional Pilot The same size pilot used for all valve size.  Fittings Plastic (standard) Tubing Polyamide (standard)  Connection  Flanged (57 series)  TS EN 1092/2 PN10 (standard)	Body - Cover	Glass Reinforced Polyamide				
Flange Adapter Thread Adapter  Internals  Stainless Steel, Nylon6,  Control System  3 Way Selector Valve  Multi-Functional Pilot Fittings Plastic (standard) Tubing Polyamide (standard)  Connection  Flanged (57 series)  Glass Reinforced Polyamide  Stainless Steel, Nylon6,  Perform manuel control of the main valve.  The same size pilot used for all valve size.  Fittings Plastic (standard)  Connection  Flanged (57 series)  TS EN 1092/2 PN10 (standard)	Diaphragm	Reinforced Natural Rubber				
Thread Adapter Internals Stainless Steel, Nylon6,  Control System  3 Way Selector Valve Perform manuel control of the main valve.  Multi-Functional Pilot The same size pilot used for all valve size.  Fittings Plastic (standard) Tubing Polyamide (standard)  Connection  Flanged (57 series) TS EN 1092/2 PN10 (standard)	Flange					
Internals Stainless Steel, Nylon6,  Control System  3 Way Selector Valve Perform manuel control of the main valve.  Multi-Functional Pilot The same size pilot used for all valve size.  Fittings Plastic (standard)  Tubing Polyamide (standard)  Connection  Flanged (57 series) TS EN 1092/2 PN10 (standard)	Flange Adapter	Glass Reinforced Polyamide				
Control System  3 Way Selector Valve Perform manuel control of the main valve.  Multi-Functional Pilot The same size pilot used for all valve size.  Fittings Plastic (standard)  Tubing Polyamide (standard)  Connection  Flanged (57 series) TS EN 1092/2 PN10 (standard)	Thread Adapter					
3 Way Selector Valve Perform manuel control of the main valve.  Multi-Functional Pilot The same size pilot used for all valve size.  Fittings Plastic (standard) Tubing Polyamide (standard)  Connection  Flanged (57 series) TS EN 1092/2 PN10 (standard)	Internals	Stainless Steel, Nylon6,				
valve.  Multi-Functional Pilot The same size pilot used for all valve size.  Fittings Plastic (standard) Tubing Polyamide (standard)  Connection  Flanged (57 series) TS EN 1092/2 PN10 (standard)	Control System					
Multi-Functional Pilot The same size pilot used for all valve size.  Fittings Plastic (standard) Tubing Polyamide (standard)  Connection  Flanged (57 series) TS EN 1092/2 PN10 (standard)	3 Way Selector Valve	Perform manuel control of the main				
size.  Fittings Plastic (standard)  Tubing Polyamide (standard)  Connection  Flanged (57 series) TS EN 1092/2 PN10 (standard)		valve.				
Fittings Plastic (standard) Tubing Polyamide (standard)  Connection  Flanged (57 series) TS EN 1092/2 PN10 (standard)	Multi-Functional Pilot	The same size pilot used for all valve				
Tubing Polyamide (standard)  Connection  Flanged (57 series) TS EN 1092/2 PN10 (standard)		size.				
Connection Flanged (57 series) TS EN 1092/2 PN10 (standard)	Fittings	Plastic (standard)				
Flanged (57 series) TS EN 1092/2 PN10 (standard)	Tubing	Polyamide (standard)				
	Connection	·				
	Flanged (57 series)	TS EN 1092/2 PN10 (standard)				
		BSP (standard) – NPT (optional)				

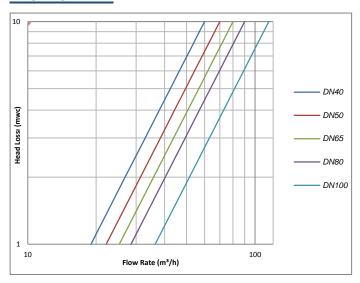
# **500 SERIES**

## **DIMENSIONS:**

Size		Н	С	L	D	A,B
inch	mm	mm	mm	mm	mm	mm
1 ½	40	110	360	200	62	316
2	50	110	360	200	75	316
2 ½	65	138	388	250	95	329
3	80	145	395	250	109	329
4(55)	100	180	430	350	135	336
4(57)	100	230	480	280	230	356



## **FLOW CHART:**



## **QUICK SIZING:**

Valve Size	mm	40	50	65	80	100
	inch	1½	2	21/2	3	4
Kv	m³/h @ 1 bar	60	70	80	90	115
Cv	gpm @ 1 psi	70	85	95	105	135
Maximum	m³/h	30	40	65	75	100
Flow Continuance	gpm	132	176	286	330	440
Maximum	m³/h	45	55	95	110	145
Flow Intermittent	gpm	198	242	418	484	638