

CONTENT

HYDRAULIC CONTROL VALVE1-6
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HYDRAULIC CONTROL VALVE

Hydraulic control valves are used for different specifications and at different places in the hydraulic machine to control the flow, direction, and pressure of liquid, in a variety of models and configurations, and are characterized by a minimalistic structure, simple design, long-term durability, cost-effective and user-friendly installation, operation and maintenance.

FEATURE

- Full bore with seat diameter as DN+2 mm (DN40-800), streamlined design, low pressure loss and minimum energy consumption
- Stable working even if the flow is close to Zero
- High performance and strength Nylon enforced diaphragm
- One million cycle test and 64 bar burst test
- Full bore (FB), Reduced bore (RB) and Cavitation device
- Higher product test
 - Seat test: 1.1 x PN + 1 Bar
 - Strength test: 1.5 x PN + 1 Bar
 - Low pressure sealing test: 0.2 Bar
- Automatic computer test with 1000 Hz Sensor
- Special & personalized solution and technical support



TECHNICAL DATA

Technical Parameter

Size Range	Medium	Temperature	Pressure Range
Ductile iron: DN40-1200 SUS304 or SUS316 or Duplex: DN40-400 Carbon Steel or Bronze: DN40-150 Aluminum: DN40-150	Water or Fuel	0-70° C (Water) -40-70° C (Fueling)	ISO EN PN10, PN16, PN25 ASME CL125/150/300 JIS 10K/16K KS Table D/E, KS4087 PN16

Standard List

Design Standard	Face to Face	Test Standard	Flange Drilling
EN 1074-5	EN558-1 Series 1	ISO 5208 & EN12266-1	EN 1092-2/ISO 7005-2 ASME or JIS KS2129 or KS 4087

HYDRAULIC CONTROL VALVE

STRUCTURE



Position Indicator

Lost wax stainless steel

Bush

Bronze, self-lubricating

Bonnet

Pagoda shape for highest strength

Spring

Stainless steel material and best working zone under fully open and close

Diaphragm

Bowl shape, sealing rings for both Bonnet and shaft

Valve seat and Rubber gasket

Quickly open and Anti-cavitation design

Shaft

Bigger diameter for to have more strength

Disc guide

No shaking even for small opening

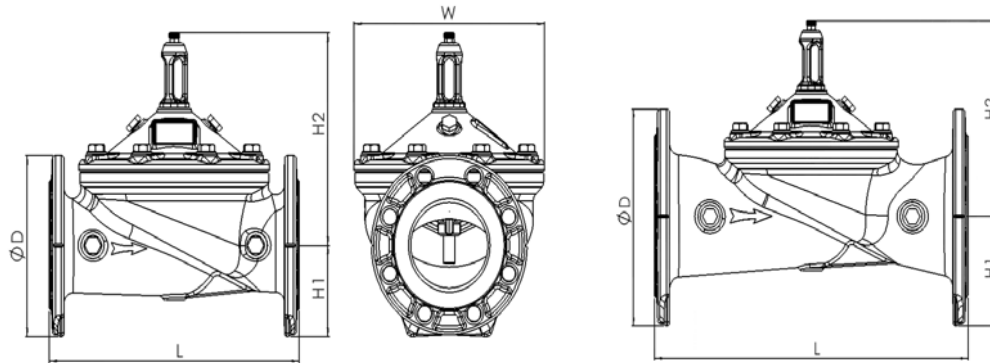
Seat

Full bore as DN+2mm (DN40-300), no rust water in seat ring

Stainless steel air valve for optional

HYDRAULIC CONTROL VALVE

DIMENSIONS



DN	Fully Bore (FB)						Reduce Bore (RB)						
	L	H2	H1	W	Port	Weight (Kg)	DN	L	H2	H1	W	Port	Weight (Kg)
40	200	120	80	160	3/8"	10	50	230	130	85	160	3/8"	12
50	230	139	85	173	3/8"	14	65	290	139	95	173	3/8"	15
65	290	159	95	198	3/8"	19	80	310	159	102	198	3/8"	21
80	310	179	102	226	3/8"	23	100	350	179	112	226	3/8"	27
100	350	214	112	265	1/2"	31	125	400	214	127	265	1/2"	34
125	400	278	127	307	1/2"	48	150	480	214	145	265	1/2"	37
150	480	333	145	351	1/2"	68	200	600	333	172	351	1/2"	88
200	600	407	172	436	3/4"	125	250	730	407	205	436	3/4"	144
250	730	476	205	524	1"	200	300	850	476	232	524	1"	231
300	850	526	232	606	1"	260	350	980	526	262	606	1"	281
350	980	585	262	673	1"	405	400	1100	526	292	606	1"	370
400	1100	624	292	741	1"	560	450	1200	624	325	741	1"	595
500	1250	720	360	1002	1"	880	500	1250	624	360	741	1"	750
600	1450	835	425	1308	1"	1300	600	1450	720	425	1002	1"	1150
800	1850	1110	515	1755	1 1/2"	1950	700	1650	835	460	1308	1"	1420
1000	2250	1350	630	2231	1 1/2"	2956	800	1850	835	515	1308	1"	1680
*More dimensions are available on request.							900	2050	1110	570	1755	1 1/2"	2285
							1000	2250	1110	630	1755	1 1/2"	2568
							1200	2450	1350	750	2231	1 1/2"	3655

HYDRAULIC CONTROL VALVE

TYPICAL VALVE

<p>Pressure Reducing Valve</p>	<p>Standard supply</p> <ul style="list-style-type: none"> 1-Main valve 2-Orifice 3-Needle valve 4-Reducing pilot 5-Ball valve 6-Inner filter 	
		<p>Installation Scheme</p> <ul style="list-style-type: none"> A-Shutoff valve B-Strainer C-PRV D-Shutoff valve
<p>Float control Valve</p>	<p>Standard supply</p> <ul style="list-style-type: none"> 1-Main valve 2-Orifice 3-Ball valve 4-Float pilot 5-Inner filter 6-Accelerator (DN250 and above) 	
		<p>Installation</p> <ul style="list-style-type: none"> A-Shut off valve B-Y strainer C-Float control valve D-Shut off valve E-Soft joint F-Float pilot

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TYPICAL VALVE

Surge Anticipation Valve	<p>Standard supply</p> <ul style="list-style-type: none"> 1-Main valve 2-Needle valve 3-Ball valve 4-Strainer 5-Orifice 6-Low pressure reducing pilot 7-High pressure relief pilot 	
		<p>Installation</p> <ul style="list-style-type: none"> A-Shut off valve B-Strainer C-Surge anticipation valve D-Shut off valve
Pump Control Valve	<p>Standard Supply</p> <ul style="list-style-type: none"> 1-Main valve 2-Inner filter N-Needle valve 	
		<p>Installation</p> <ul style="list-style-type: none"> A-Shut valve B-Strainer C-Pump control valve D-Shut valve P-Pump

HYDRAULIC CONTROL VALVE

TYPICAL VALVE

Pressure Relief / Sustaining Valve	<p>Standard Supply</p> <ul style="list-style-type: none"> 1-Main valve 2-Orifice 3-Needle valve 4-Pilot 5-Ball valve 6-Inner filter 	
		<p>Pressure Relief Valve</p> <p>To evacuate an excess of pressure</p>
		<p>Pressure Sustaining Valve</p> <p>Keep the pressure as setting requirement in upstream</p>

Direct Acting Pressure Reducing Valve

	<p>Size: 3/8"-2"</p> <p>Connection: BSPT/NPT</p> <p>Material: SUS 304/316</p> <p>Media: Pure water</p> <p>Working temperature: 0-80°C</p> <p>Pressure range:</p> <p>PN16 (Setting range: 1.5-7 Bar)</p> <p>PN25 (Setting range: 2-10 Bar)</p>	
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