Technical Information

Series 8100E



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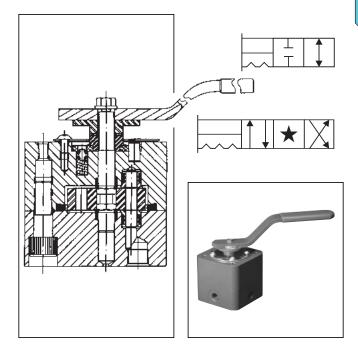
General Description

Series 8100E valves are 2, 3 and 4-way manual selector valves with near zero leakage characteristics and are rated to 414 Bar (6000 PSI) for liquids and 276 Bar (4000 PSI) for air. The valve design requires low actuation torque and can be used in applications where loads must be held for long periods and under difficult conditions.

Features

- Shear-type positive seal.
- Zero leakage (1 drop per min. per pressure port).
- High contamination tolerance.
- Long life due to wiping action of seals and disk.
- Low turning torque.
- Panel mounting is standard.





Service Applications	Lubricated air, hydraulic oil, and water. For case pressure or exhaust port pressure applications above 17.3 Bar (250 PSI), consult factory.	Material	Body & Cap: Disk: Shaft: Seals:	Steel Stainless steel type 440 Stainless steel type 416 Stainless steel type 440				
Maximum Operating Pressure	Working: Liquids - 414 Bar (6000 PSI) Air - 276 Bar (4000 PSI) Proof: Liquids - 621 Bar (9000 PSI) Air - 621 Bar (9000 PSI) Burst: 1035 Bar (15,000 PSI)		Spring Seals: O-rings: Back-up rings: Handle: Finish:	Stainless steel Synthetic rubber compatible with media PTFE Steel Paint				
Porting	Bottom or side NPT: Pipe threads Sizes 1/4", 1/2" & 1" IST: Internal straight threads per AND10050		Note: Steel bodi service are elec Water service va grease fittings a	es and caps for water or air troless nickel plated. alves are equipped with nd require periodic a waterproof grease.				
	Sizes: 6, 10, & 16	Operating	-40°C to +121°C (-40°F to +250°F)					
Mounting	Subplate - Sizes 6, 10 & 16	Temperature	Higher on specia	ai order				

				Weight	CV Factor	Flow Passage	Handle Pull – Lbs.					
Valve Size				Lbs.	P. to A. or P. to B.	Diameter	810	00E	R8100E			
Subplate	SAE	Tube	Pipe	Steel	8100E	8100E	Air	Oil	Air	Oil		
Size 6	#6	6	1/4	5-1/2	1.0	.250 In.	18	15	17	16		
Size 10	#10	10	1/2	10	1.2	.250 ln.	15	13	22	19		
Size 16	#16	16	1	22	3.2	.437 ln.	18	15	28	26		



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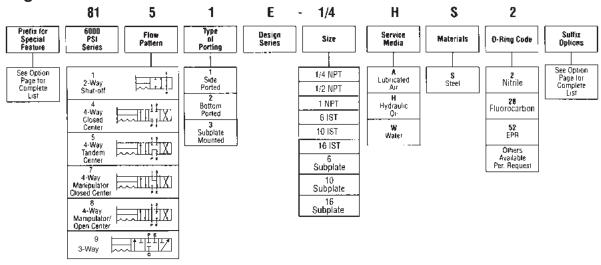


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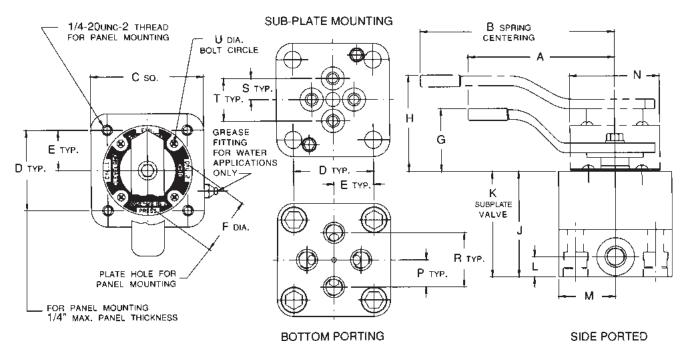
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Ordering Information



Dimensions





Valve Size					All Dimensions are in Inches															Subplate Mounted			
Sub-Plate	SAE	Tube	Pipe	A	B	C	D	E	F	G	Н	J	K	L	М	N	P	A	S	T	U	Mt'g. Bolf	Torq.
Size 6	#6	6	1/4	6	8	3	2 1/8	1 1/16	1	21/8	$2\frac{21}{32}$	$2\frac{27}{32}$	2 <u>21</u>	17 32	1 1 2	2 3/8	2 <u>3</u> 32	17/16	9 16	11	2	7/16 - 20NF 2 x 2 ¹ 2 Lg.	865 In. – Lbs.
Size 10	#10	10	1/2	7	10	3 1/2	2 ½	1-4	1	2 3	$3\frac{7}{64}$	3 37	2 <u>55</u>	4 <u>9</u> 64	1 3	2 <u>15</u>	1 <u>3</u>	1 <u>5</u>	<u>9</u> 16	1 1 1 B	$2\frac{1}{2}$	7/16 - 20NF 2 x 3 Lg.	865 In. – Lbs.
Size 16	#16	16	1	10	12	4 1/2	3 3	1 19/32	1 3	2 15 16	3 3/8	4 23 32	3 45 64	1	2 1	3 11/16	1 3 B	2 3	13 16	1 5 B	$3\frac{3}{16}$	5/8 - 18NF 2 x 3 ¹ / ₂ Lg.	3,250 In. – Lbs.

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