

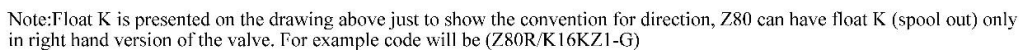
Working conditions

Nominal flow rating		80 l/min	21.1 US gpm
Operating pressure (max.)	<i>parallel and tandem</i>	315 bar	46000 psi
Back pressure (max.)	<i>outlet port T, static</i>	35 bar	508 psi
Internal leakage (min.) A(B) to T	$\Delta p = 100 \text{ bar (1450 psi) fluid and valve at } 40^\circ\text{C (104}^\circ\text{F)}$	8 cm ³ /min	0.48 in ³ /min
Hydraulic fluid		Mineral based oil	
Fluid temperature	<i>with NBR seals</i>	from -20 °C to 80 °C	<i>from -4 °F to 176 °F</i>
	<i>with FPM (Viton) seals</i>	from -20 °C to 100 °C	<i>from -4 °F to 212 °F</i>
Viscosity	<i>operating range</i>	from 15 to 75 mm ² /s	<i>from 15 to 75 cSt</i>
	<i>min.</i>	12 mm ² /s	12 cSt
	<i>max.</i>	400 mm ² /s	400 cSt
Permissible degree of fluid contamination		-/19/16 - ISO 4406 NAS 1683 - class 10	
Ambient temperature	<i>with mechanical devices</i>	from -40 °C to 60 °C	<i>from -40 °F to 140 °F</i>
	<i>with pneumatic and hydraulic devices</i>	from -30 °C to 60 °C	<i>from -22 °F to 140 °F</i>
	<i>with electric devices</i>	from -20 °C to 50 °C	<i>from -4 °F to 140 °F</i>

Standard threads

Reference standard				
	BSP	UN-UNF	Metric	NPTF
Thread	ISO 228/1	ISO 263	ISO 262	Ansi B1.20.3
according to	BS 2779	ANSI B1.1 unified		
Cavity	ISO 1179	11926	9974-1	
dimension	SAE	J1926	J2244	J476a
according to	DIN 3852-2 (Shape X or Y)		3852-1 (Shape X or Y)	
Port threadings and codes				
Codes:	G	S	NPTF	M
Main ports	BSP	UN-UNF	NPTF	Metric
Inlet P	G1/2	7/8-14 (SAE10)	1/2NPTF	M22x1.5
Outlet port T	G3/4	1 1/16-12 (SAE12)	3/4NPTF	M26x1.5
Working ports A and B	G1/2	7/8-14 (SAE10)	1/2NPTF	M22x1.5
Control pilot ports				
Pneumatic	1/8-27 NPTF	1/8-27 NPTF	1/8-27 NPTF	1/8-27 NPTF
Hydraulic	G1/4	9/16-18 (SAE6)	9/16-18 (SAE6)	G1/4

This drawing refers to a directional control valve with 2 working sections with common check valve



TYPE	E		F		Weight	
	mm	<i>in</i>	mm	<i>in</i>	kg	<i>lb</i>
Z80	111	<i>4.37</i>	65	<i>2.56</i>	3.90	<i>8.6</i>
Z80PT	122	4.80	65.00	2.56	4.55	10.03
02Z80	160	<i>6.30</i>	103	<i>4.06</i>	6.75	<i>14.9</i>
03Z80	198	<i>7.80</i>	141	<i>5.55</i>	9.05	<i>19.9</i>
04Z80	236	<i>9.29</i>	179	<i>7.0</i>	11.15	<i>24.6</i>
05Z80	274	<i>10.8</i>	217	<i>8.5</i>	13.45	<i>29.6</i>
06Z80	312	<i>12.3</i>	255	<i>10.0</i>	15.55	<i>34.3</i>