

SHUTTLE VALVES (WVE)

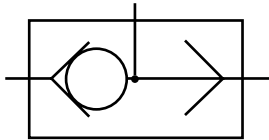
DESCRIPTION

The **HYDAC** Shuttle Valves are shut-off valves with two inlets and one outlet. The inlet with the higher pressure is automatically connected to the outlet. The other inlet is closed. This complies with DIN-ISO 1219. The shuttle valves are cartridge type valves for installation into manifolds and control blocks. The shuttle valves are ball-seat type valves without leakage.

TECHNICAL DATA

Hydraulic Symbol

- Shuttle Valve



Design

- Seat Valve

Mounting Method

- Cartridge

Nominal Size

- (SAE-5) 1/2-20
- R 1/8 (Special Order)
- R 1/4 (Special Order)

Approximate Weight

- (SAE-5) 1/2-20 R 1/4...12g
- R 1/8...5g
- R 1/4...12g

Mounting Position

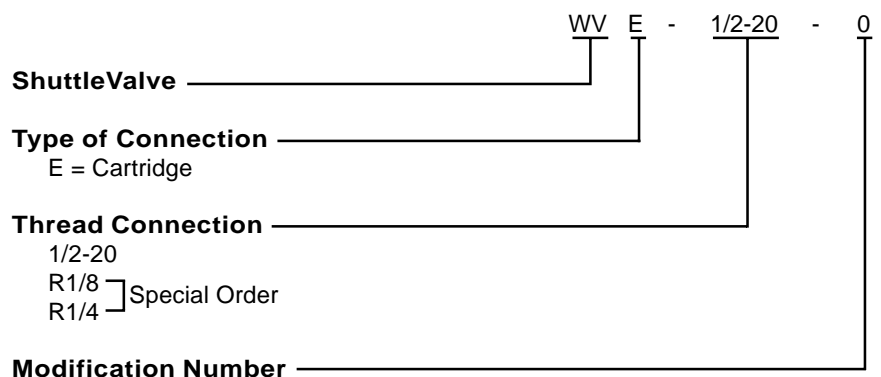
- Optional

Direction of Flow

- Optional



Model Code



HYDRAULIC DATA

Operating Pressure Range

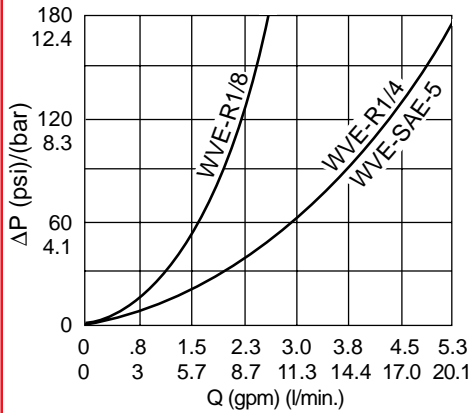
- P max. 5000 PSI = 350 BAR

Temperature Range

- min...max...
- 4° F... +104° F
- 20° C... +80° C

Flow Rate

- Pressure differential
 ΔP dependent on flow Q at 168
 SSU and $T_{oil} = 104^\circ F = 40^\circ C$.
 Q- ΔP -Curves

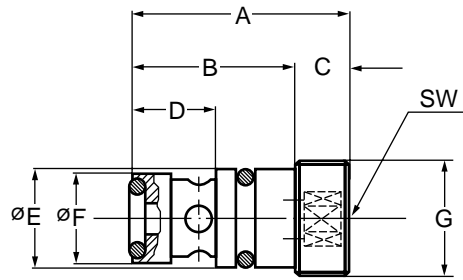


Cross-Over Effect on Shut-off

- negligible

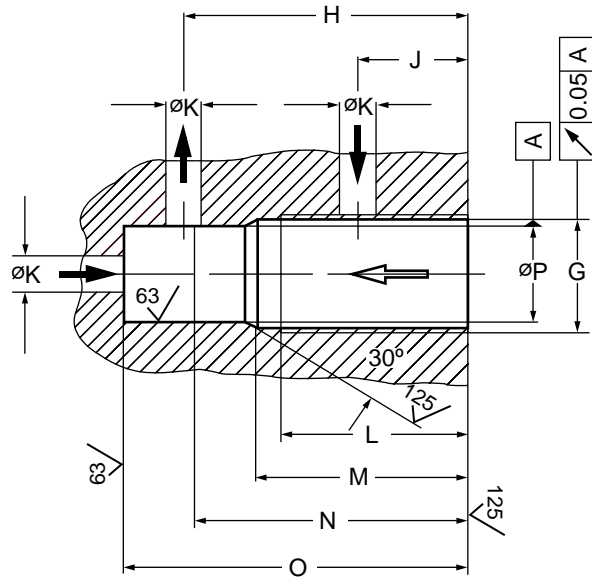
Dimensions are for general information only. Due to constant development and updating of technical details, we ask that all critical dimensions be made by requesting a certified print.

Dimensions



Cartridge

Nominal Size	A	B	C	D	ϕE	ϕF	G	SW
WVE-R $1/8$ -0 mm	18	13.5	4.5	7	8	7.8	G $1/8$	4mm
WVE-SAE 5 inch	.906	.669	.236	.374	.433	.413	1/2-20	6mm
WVE-R $1/4$ -0 mm	23	17	6	9.5	11	10.5	G $1/4$	6mm

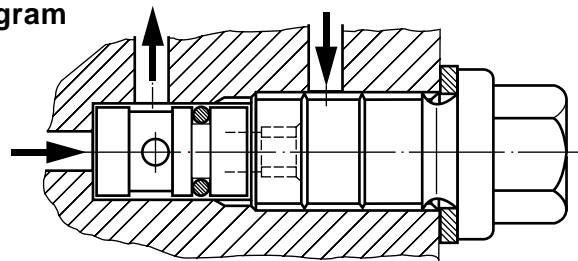


Bore for Cartridge

Nominal Size	G	H	J	ϕK	L	M	N_{min}	O	ϕP^{H8}
WVE-R $1/8$ -0 mm	G $1/8$	24	9.5	3	16	18	23	29	8
WVE-SAE 5 inch	$1/2$ -20	1.299	.571	.197	.925	1.024	1.260	1.575	.433 ^{+0.011}
WVE-R $1/4$ -0 mm	G $1/4$	33	14.5	5	23.5	26	32	40	11

(Surface finish in microinches)

Installation Diagram



HYDAC

HYDAC TECHNOLOGY CORPORATION
 2260 City Line Road • Bethlehem, PA 18017
 Phone (610) 266-0100 • Fax (610) 266-3540
 www.hydacusa.com • powerup@hydacusa.com