



### CONFIGURATION

X	Control	Not Adjustable
A	Flow Split	50/50
N	Seal Material	Buna-N
	Material/Coating	

NOTE: DATA MAY VARY BASED ON CONFIGURATION. **TECHNICAL DATA**

cavidad	T-34A
Series	4
Capacity	23 - 120 L/min.
Maximum Operating Pressure	350 bar
Divisional Accuracy at Max Input Flow	50% ±1.5%
Divisional Accuracy at Minimum Input Flow	50% ±2.5%
Pressure Drop at Maximum Rated Input Flow	24 bar
Pressure Drop at Minimum Rated Input Flow	2 bar
Valve Hex Size	41,3 mm
Valve Installation Torque	474 - 508 Nm
Model Weight	1.35 kg.
Seal kit - Cartridge	Buna: 990-034-007
Seal kit - Cartridge	Polyurethane: 990-034-002
Seal kit - Cartridge	Viton: 990-034-006

## OPTION SELECTION EXAMPLE: FSFRXAN

CONTROL	(X) FLOW SPLIT	(A) SEAL MATERIAL	(N) MATERIAL/COATING
X Not Adjustable	A 50/50	N Buna-N V Viton	Standard Material/Coating /AP Stainless Steel, Passivated /LH Mild Steel, Zinc-Nickel

### TECHNICAL FEATURES

- All flow divider and divider/combiner cartridges are physically interchangeable (i.e. same flow path, same cavity for a given frame size).
- Operating characteristics cause the leg of the circuit with the greatest load to receive the higher percentage of flow in dividing mode. If a rigid mechanism is used to tie actuators together, the lead actuator may pull the lagging actuator and cause it to cavitate.
- In combining mode, compensating characteristics will cause the leg of the circuit with the lowest load to receive the higher percentage of flow. If a synchronization feature is not included, an additive accuracy error will be experienced with each full stroke of the actuator.
- In applications involving rigid mechanisms between multiple actuators, operating inaccuracy will cause the eventual lock-up of the system. If the mechanical structure is not designed to allow for the operating inaccuracy inherent in the valve, damage may occur.
- In motor circuits, rigid frames or mechanisms that tie motors together, and/or complete mechanical synchronized motion of the output shaft of the motors, either by wheels to the pavement or sprockets to conveyors, will contribute to cavitation, lock-up and/or pressure intensification.
- Variations in speed and lock-up can be attributed to differences in motor displacement, motor leakage, wheel diameter variance and friction of wheels on the driving surface.
- Extreme pressure intensification can occur on multiple wheel drive vehicles.
- The synchronization feature provides bi-directional static error correction.
- Synchronization flow is approximately 15% of minimum rated input flow.
- Divisional and combining accuracy are equal.
- The synchronizing feature only comes into play when any one of the 3 ports is blocked. At that time, flow may occur between the other two ports.
- Below the minimum flow rating there is not enough flow for the valve to modulate. It is effectively a tee. If flow starts at zero and rises, there will be no dividing or combining control until the flow reaches the minimum rating.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

### PERFORMANCE CURVES

Split	Input Flow		Rated Accuracy	Maximum Possible Flow Variation
	Max	Rated		
50:50	30 gpm	120 L/min	±2%	14.4 - 15.6 gpm
	6 gpm	23 L/min		2.8 - 3.2 gpm
	6 gpm	23 L/min	±3%	10.8 - 12.2 L/min
	<b>Synchronizing Flow</b>			1.75 - 3.50 gpm
			6.6 - 13.2 L/min	

The maximum possible variation is at 5000 psi (350 bar) differential between legs with the high pressure leg being the higher flow in dividing mode and the lower flow in combining mode.