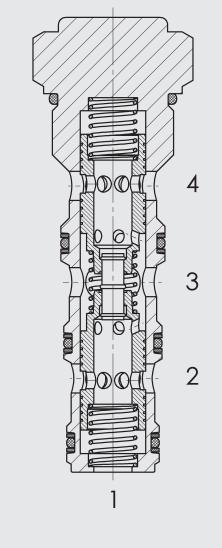


### FUNCTION



Note: Port 1 is not used

The flow divider is a pressurecompensated spool type valve that divides a flow in two. The division is made according to the specified ratio from port 3 to ports 2 and 4. As a flow combiner it combines two partial flows together – from ports 2 and 4 to port 3. Part 1 is pat used

Port 1 is not used.

# Flow Divider / Combiner Spool type UNF Cartridge – 350 bar ST16-01

## FEATURES

- Main use in drive applications as differential lock or for synchronisation of two cylinders
- Synchronizing flow in both operating modes
- Support range from 25% of nominal flow rating
- Exposed surfaces zinc-nickel plated for increased corrosion protection (1.000 h Salt spray test)

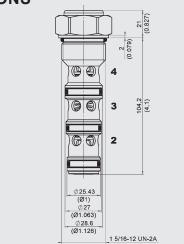
## SPECIFICATIONS\*

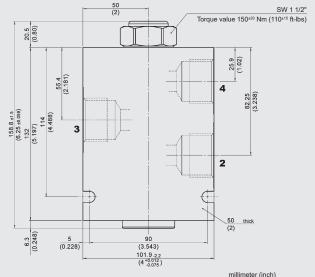
Operating pressure:	max. 350 bar		
Nominal flow:	max. 150 l/min		
Inlet flow max.:	max. 90 l/min Code 1212		
(port 3)	max. 115 l/min Code 1515		
	max. 150 l/min Code 2020		
Control accuracy:	up to 10% of inlet flow per partial flow		
Media operating temperature range:	min30 °C to max. +100 °C		
Ambient temperature range:	min30 °C to max. +100 °C		
Operating fluid:	Hydraulic oil to DIN 51524 Part 1, 2 and 3		
Viscosity range:	min. 7.4 mm²/s to max. 420 mm²/s		
Filtration:	Class 17/15/12 to ISO 4406 or cleaner		
MTTF <sub>d</sub> :	150 - 1200 years,		
	according to DIN EN ISO 13849-1		
Materials:	Valve body: steel		
	Spool: hardened and ground steel		
	Seals: NBR (standard) FKM (optional, media temperature range -20 °C to +100 °C)		
	Back-up rings: PTFE		
Cavity:	FC16-4 (port 1 is not used)		
Weight:	0.45 kg		

\*see "Conditions and instructions for valves" in brochure 53.000

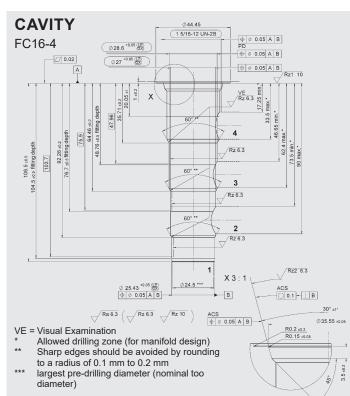
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#### Form tools

Part No.	
176377	
176378	millimeter (inch) subject to technical modifications
	176377

### **MODEL CODE**

Basic model Flow divider / Combiner, UNF

#### **Body and Ports\***

C = cartridge only
SB8 = G1 ports, steel body
AB8 = G1 ports, aluminium body
Versions with line bodies on request

#### Seals

Ν = NBR (standard) V = FKM

### Flow rate code & flow range

Code	Ratio Port 2 [%]	Ratio Port 4 [%]	Max. flow [l/min]	Balance flow rate [l/min]
1212	50	50	90	6.7
1515	50	50	115	8.3
2020	50	50	150	9.8

<u>ST16-01 – C – N – 1212</u>

#### Standard models

Model code	Part No.
ST16-01-C-N-1212	3012922
ST16-01-C-N-1515	3115421
ST16-01-C-N-2020	3012973

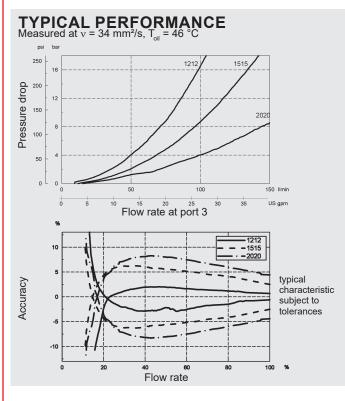
#### \*Standard in-line bodies

Code	Part No.	Materials:	Ports	Pressure
FH164-SB8	3032902	Steel, zinc-plated	G1"	350 bar
FH164-AB8	3037213	Aluminium, anodized	G1"	210 bar

#### Seal kits

Code	Material	Part No.	
FS UNF 16/N SEAL KIT	NBR	3651395	
FS UNF 16/V SEAL KIT	FKM	3651396	

Port 1 is not required and should be closed with threaded plug



#### NOTE

The information in this brochure relates to the operating conditions and applications described. For applications or operating conditions not described, please contact the relevant technical department. Subject to technical modifications.

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