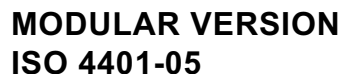


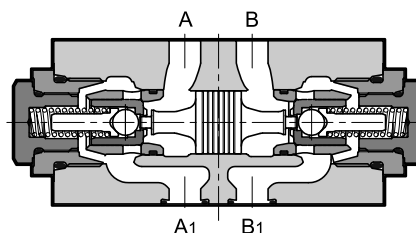
SERIES 11



Q max 120 l/min

OPERATING PRINCIPLE

Figure 1: Dimensions of the CETOP 4.2-4-05-350. The drawing shows a mechanical component with various ports and dimensions. The top horizontal dimensions are 54, 50.8, 37.3, 27, 16.7, and 3.2. The left vertical dimensions are 46, 32.5, 21.4, and 6.3. The bottom left dimension is Ø11.2 (max). The component features ports labeled T, A, P, B, and M6. A note indicates that the 'T' port is optional.

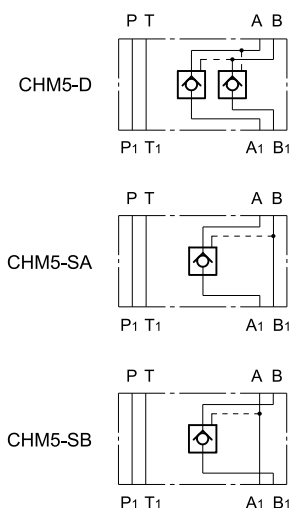


- This is a pilot operated check valve (spring closing and cone on edge seals) with a built-in flow control feature. The mounting surface is according to the ISO 4401 standard.
- The CHM5 are always mounted under the ISO 4401-05 directional solenoid valves and can be assembled with all other ISO 4401-05 valves.
- The pre-opening feature of the valve causes the decompression of the cylinder chamber, leading to a smooth motion.

(measured with mineral oil of viscosity 36 cSt at 50°C)

Maximum operating pressure	bar	350
Maximum flow rate	l/min	120
Decompression ratio	14,9:1	
Piloting ratio	2,3:1	
Check valve cracking pressure	bar	2
Ambient temperature range	°C	-20 / +60
Fluid temperature range	°C	-20 / +80
Fluid viscosity range	cSt	10 ÷ 400
Recommended viscosity	cSt	25
Fluid contamination degree	According to ISO 4406:1999 class 20/18/15	
Mass: CHM5-D CHM5-SA and CHM5-SB	kg	2,2 1,9

HYDRAULIC SYMBOLS



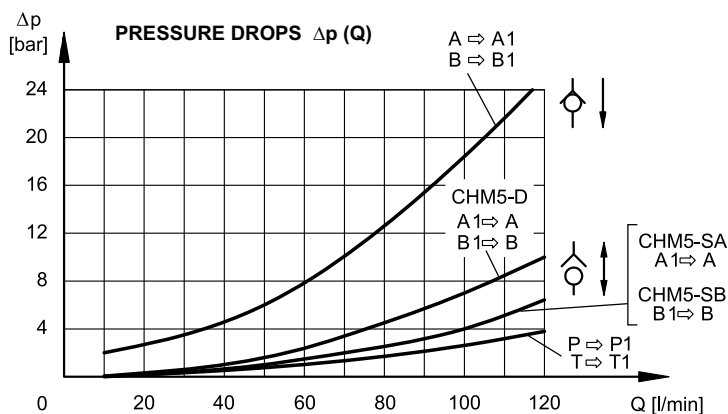
Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

Казахстан (772)734-952-31

1 - IDENTIFICATION CODE

C H M 5 - / 11									
Pilot operated check valve					Seals: N = NBR seals for mineral oil (standard) V = FPM seals for special fluids				
Modular version					Series No. (the overall and mounting dimensions remain unchanged from 10 to 19)				
ISO 4401-05 size					Configurations: D = seal on both A and B lines SA = seal on line B of the actuator SB = seal on line B of the actuator				

2 - CHARACTERISTIC CURVES (obtained with viscosity of 36 cSt at 50°C)



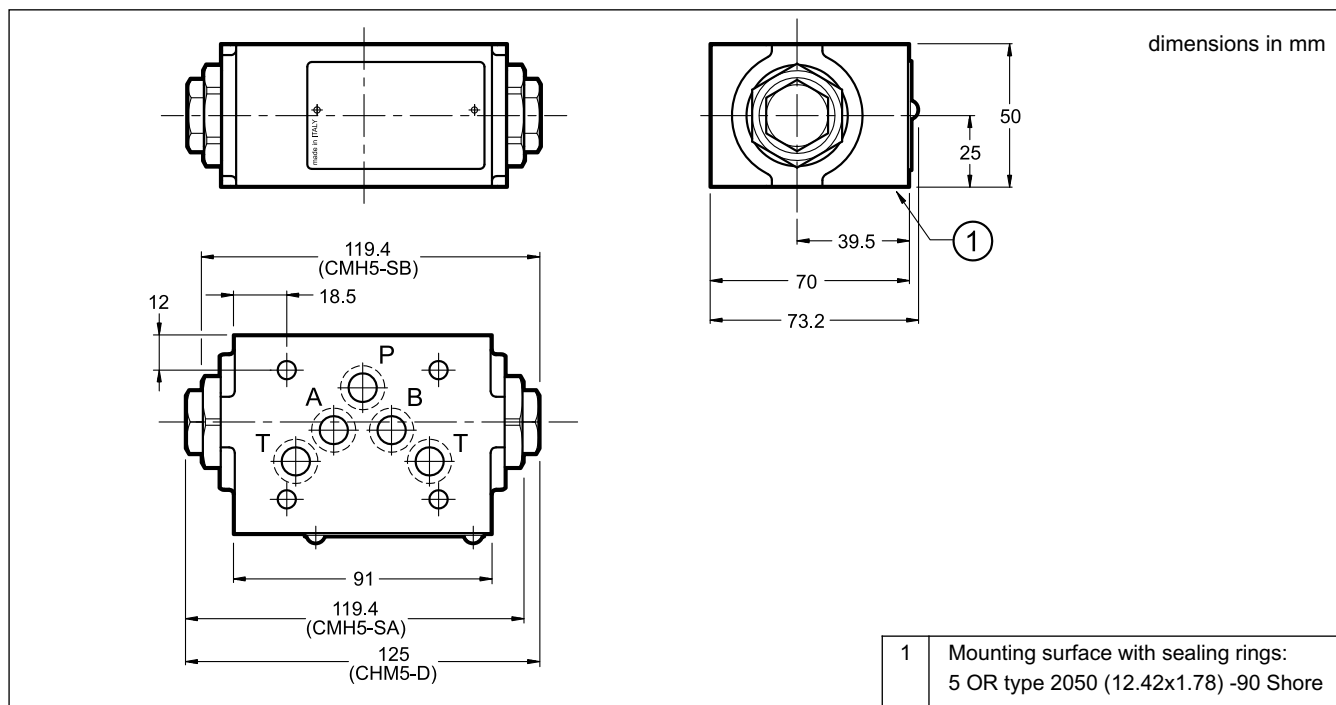
3 - HYDRAULIC FLUIDS

Use mineral oil-based hydraulic fluids HL or HM type, according to ISO 6743-4. For these fluids, use NBR seals (code N). For fluids HFDR type (phosphate esters) use FPM seals (code V).

For the use of other kinds of fluid such as HFA, HFB, HFC, please consult our technical department.

Using fluids at temperatures higher than 80 °C causes a faster degradation of the fluid and of the seals characteristics. The fluid must be preserved in its physical and chemical characteristics.

4 - OVERALL AND MOUNTING DIMENSIONS



Архангельск (8182)63-90-72
 Астана (7172)727-132
 Астрахань (8512)99-46-04
 Барнаул (3852)73-04-60
 Белгород (4722)40-23-64
 Брянск (4832)59-03-52
 Владивосток (423)249-28-31
 Волгоград (844)278-03-48
 Вологда (8172)26-41-59
 Воронеж (473)204-51-73
 Екатеринбург (343)384-55-89
 Иваново (4932)77-34-06

Ижевск (3412)26-03-58
 Иркутск (395)279-98-46
 Казань (843)206-01-48
 Калининград (4012)72-03-81
 Калуга (4842)92-23-67
 Кемерово (3842)65-04-62
 Киров (8332)68-02-04
 Краснодар (861)203-40-90
 Красноярск (391)204-63-61
 Курск (4712)77-13-04
 Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
 Москва (495)268-04-70
 Мурманск (8152)59-64-93
 Набережные Челны (8552)20-53-41
 Нижний Новгород (831)429-08-12
 Новокузнецк (3843)20-46-81
 Новосибирск (383)227-86-73
 Омск (3812)21-46-40
 Орел (4862)44-53-42
 Оренбург (3532)37-68-04
 Пенза (8412)22-31-16

Пермь (342)205-81-47
 Ростов-на-Дону (863)308-18-15
 Рязань (4912)46-61-64
 Самара (846)206-03-16
 Санкт-Петербург (812)309-46-40
 Саратов (845)249-38-78
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 Симферополь (3652)67-13-56
 Смоленск (4812)29-41-54
 Сочи (862)225-72-31
 Ставрополь (8652)20-65-13

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