

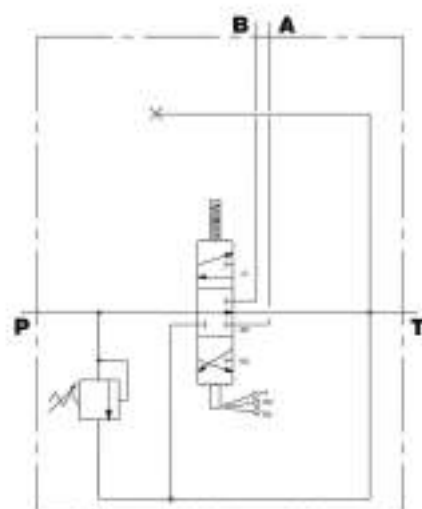
DISTRIBUTORI MONOBLOCCO
MONOBLOCK DIRECTIONAL CONTROL VALVES
MONOBLOCK-STEUERGERÄTE

MD1

398SMD0023A00

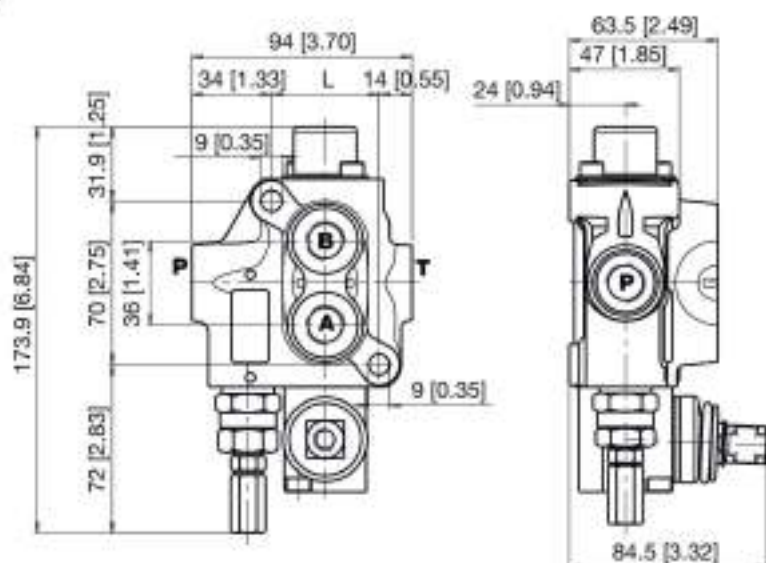
DATI TECNICI TECHNICAL DATA TECHNISCHE MERKMALE

Portata nominale (max) Nominal flow (max) Nominaler Durchfluß (max)	35 (45) l/min 9.3 (11.9) gpm
Portata nominale (max) con azionamenti E,D,J Nominal flow rate (max) with drivers E,D,J Nenn-Durchflussmenge (max.) mit Antrieben E, D, J	20 (30) l/min 5.3 (7.9) gpm
Pressione nominale Nominal pressure Nominaler Betriebsdruck	250 (3625) bar (psi)
Pressione massima con azionamenti E,D,J Maximum pressure with drivers E,D,J Max. Druck mit Antrieben E, D, J	180 (2610) bar (psi)
Contropressione massima allo scarico Maximum tank pressure Maximaler Gegendruck Tankleitung	50 (725) bar (psi)
Massima trafilatura interna Maximum internal leakage Maximale interne Leckage	8 cc/min (21 cSt - 100 bar)
Temperatura di utilizzo Temperature range Betriebstemperatur	-20°C +85°C NBR seals (max peak +100°C) -20°C + 130°C HNBR seals
Viscosità olio Oil viscosity Ölviskosität	Da 15 cSt a 90 cSt From 15 cSt to 90 cSt Von 15 cSt nach 90 cSt
Fluido Fluid Öl	Olio a base minerale Mineral based oil Mineral Oil



STANDARD
STANDARD
STANDARD

STANDARD - ENTRATA SINISTRA
STANDARD - LEFT INLET
STANDARD - LINKER EINGANG



DIMENSIONI SIZE ABMESSUNGEN

N° DI SEZIONI N° OF SECTIONS ANZAHL ELEMENTE	L mm [inch]	MASSA kg (lb) WEIGHT kg (lb) GEWICHT kg (lb)
MD1	46 [1.8]	2.2 (4.8)

FILETTATURA THREAD GEWINDE

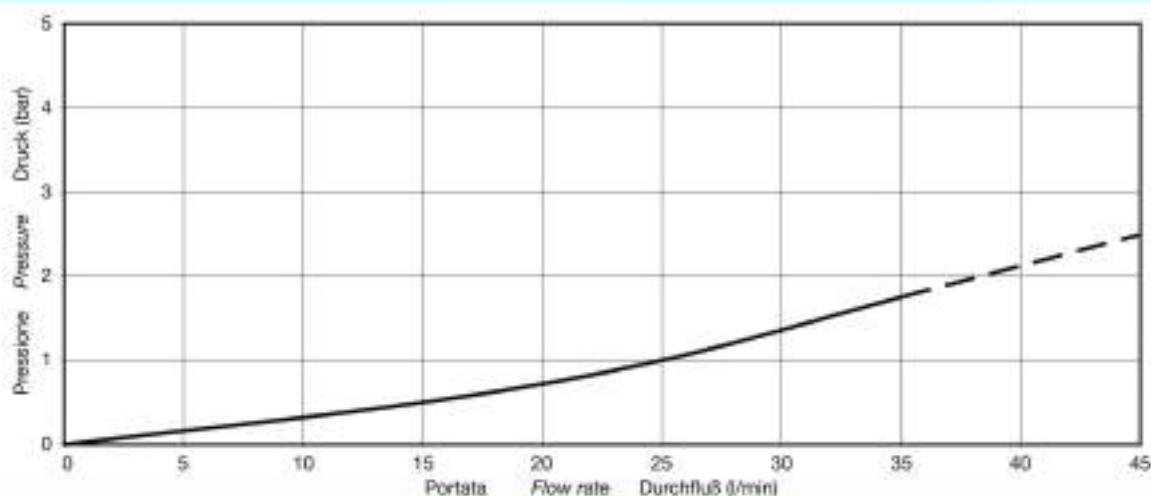
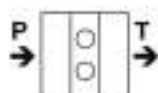
CODICE MODEL BEZEICHNUNG	TIPO TYPE GEWINDE	SERRAGGIO Nm TORQUE Nm ANZUGSMOMENT Nm
B	1/2" GAS ISO 1179	70
A	3/8" GAS ISO 1179	35
C	M18x1.5 ISO 9974	40
T	M16x1.5 ISO 9974	24
E	3/4 - 16 SAE ISO 11926	50
P	9/16 - 18 SAE ISO 11926	21



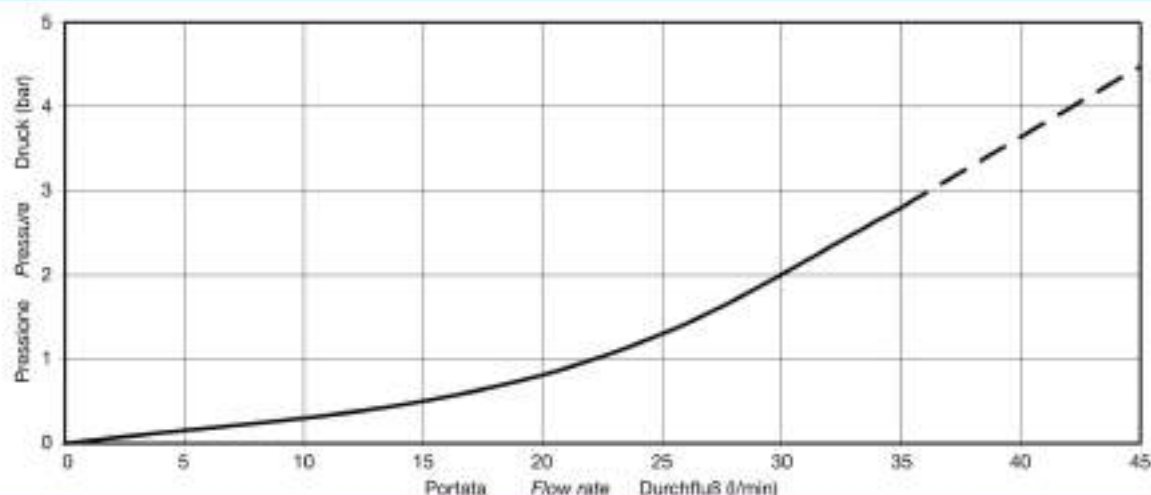
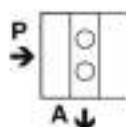
**CURVE CARATTERISTICHE
FLOW CURVES
DURCHFLOSSKENNLINIEN**

MD1

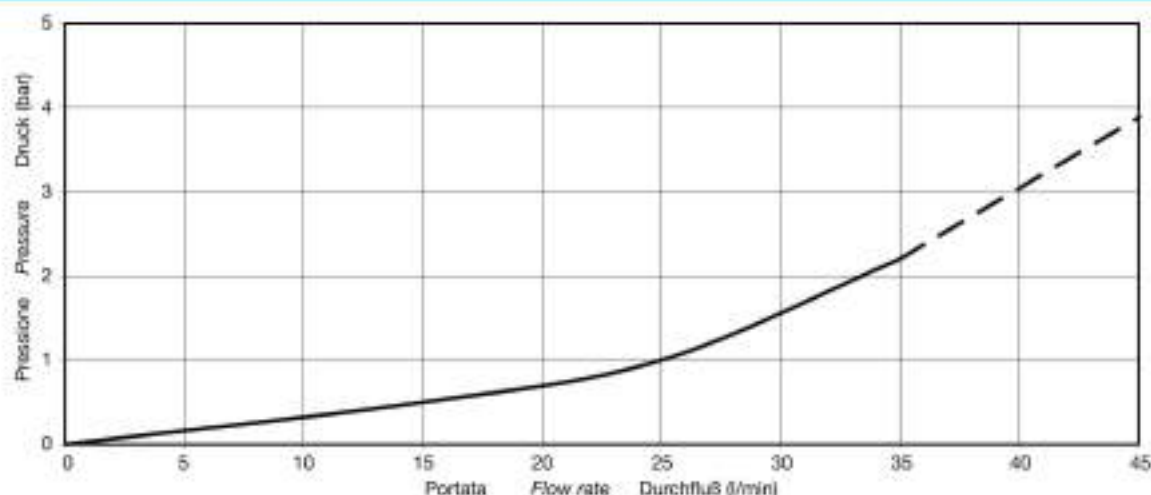
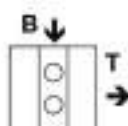
P-T



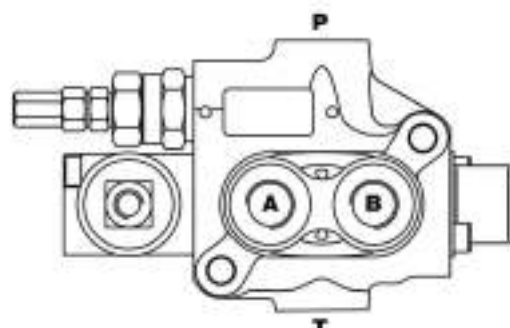
P-A



B-T



Parametri di prova: spola circuito 01
Testing parameters: 50°C - 21 cSt spool type 01
Prüfparameter: Kolben 01



AZIONAMENTO ACTUATOR HEBELSEITE		OPZIONI LATO POSIZIONATORE SPOOL CONTROL SIDE STEUERSCHIEBERSEITE	
L			Manuale Manual Handhebel
Z			Manuale con limitatore di corsa Manual with stroke limiter Handhebel mit Hubbegrenzung
9			Azionamento a sfera integrata Actuator with integrated ball Mechanische Betätigung mit Kugelende
A			Senza portaleva appendice standard Without lever holder standard appendix Ohne Hebelhalter, Kolben mit Zunge
B			Senza portaleva senza appendice Without lever holder without appendix Ohne Hebelhalter, Kolben ohne Zunge
1			Senza portaleva appendice sfera Without lever holder ball appendix Ohne Hebelhalter, mit Kugel
F			Senza portaleva appendice forcella Without lever holder fork appendix Ohne Handhebel mit Gabel
C			Senza portaleva appendice piatta Without lever holder flat appendix Mechanische Betätigung mit geradem Kolbenende
V			Intenzionale verticale Intentional vertical Sicherheitshebel, vertikal
O			Intenzionale orizzontale Intentional horizontal Sicherheitshebel, horizontal
E			Comando elettrico doppio effetto Dual effect electric control Elektrisch Doppeltwirkend
D			Comando elettrico singolo effetto bocca A Single effect electric control port A Elektrisch Anschluß A
J			Comando elettrico singolo effetto bocca B Single effect electric control port B Elektrisch Anschluß B
T			Predisposizione cavo lato azionamento Cable setting on actuator side Anschluß für Bowdenzug
K			Comando idraulico Hydraulic control Hydraulisch ferngesteuert
		C	Limitatore di corsa Stroke limiter Hubbegrenzung
		M	Doppio comando maschio Male dual control Kolbenansteuerung mit Außengewinde
		F	Doppio comando femmina Female dual control Kolbenansteuerung mit Innengewinde
		T	Predisposizione cavo lato posizionatore Cable setup on positioner side Anschluß für Bowdenzug
		Y	Micro doppio effetto Dual effect microswitch Micro-Schalter, aktiv in A und B
		P	Micro semplice effetto bocca A Simple effect microswitch port A Micro-Schalter, aktiv in A
		O	Micro semplice effetto bocca B Simple effect microswitch port B Micro-Schalter, aktiv in B



CIRCUITI E SCHEMI IDRAULICI
HYDRAULIC CIRCUITS AND SCHEMES
KOLBEN UND HYDRAULISCHE SCHEMATA

MD1

CIRCUITO SPOOL TYPE KOLBEN TYP		POS. 3	POS. 1	POS. 0	POS. 2	POS. 4
01		P → B A → T BP →	A → B BP →	P → A B → T BP →		
03		P → B A → T BP →	AB → T BP →	P → A B → T BP →		
04		A → T B →	A → B BP →	P → A B → T BP →		
05		P → B A → T BP →	T →	A →		
17		P → B A → T BP →	A → B BP →	P → A B → T BP →	P → AB T →	
23		P → B A → T BP →	A → B BP →	P → AB T →	P → A B → T BP →	
71		→ PAB → BP →	P → B A → T BP →	A → B BP →	P → A B → T BP →	

POSIZIONATORE SPOOL CONTROL SCHIEBERSTELLUNG	
0L	 Detent in 1 Detent in 1 Raststellung in 1
0Q	 Detent in 1, 2 Detent in 1, 2 Raststellung in 1, 2
0R	 Posizione neutra in 2 Neutral position in 2 Neutralstellung in 2
0S	 Posizione neutra in 1 Neutral position in 1 Neutralstellung in 1
BF	 Frizionato, posizione neutra e detent in 0 Clutched, neutral position and detent in 0 Reibgeklemmt 1, Neutralstellung gerastet in 0
DF	 Frizionato, detent in 0 Clutched, detent in 0 Reibgeklemmt 1, Neutralstellung gerastet in 0
SQ	 Posizione neutra in 1, detent in 2 Neutral position in 1, detent in 2 Neutralstellung in 1, rastend in 2

POSIZIONATORE SPOOL CONTROL SCHIEBERSTELLUNG	
0A	 Posizione neutra in 0 Neutral position in 0 Neutralstellung in 0
0B	 Posizione neutra in 0, detent in 1 Neutral position in 0, detent in 1 Neutralstellung in 0, rastend in 1
0C	 Posizione neutra in 0, detent in 2 Neutral position in 0, detent in 2 Neutralstellung in 0, rastend in 2
0D	 Detent in 0, 1, 2 Detent in 0, 1, 2 Raststellung in 0, 1 und 2
0E	 Posizione neutra in 0 Neutral position in 0 Neutralstellung in 0
0F	 Posizione neutra in 0 Neutral position in 0 Neutralstellung in 0
0H	 Detent in 2 Detent in 2 Raststellung in 2

TH	 Autosgancio in 2 Kick-off in 2 Selbstlöseung in 2
TR	 Posizione neutra in 1 Neutral position in 1 Neutralstellung in 1

OPZIONI LEVA LEVER OPTIONS HEBEL-OPTIONEN	
A	110 mm diritta pomello standard 110 mm straight standard knob 110 mm gerade, Standard-Griff
B	130 mm diritta pomello standard 130 mm straight standard knob 130 mm gerade, Standard-Griff
C	180 mm diritta pomello standard 180 mm straight standard knob 180 mm gerade, Standard-Griff
D	210 mm diritta pomello standard 210 mm straight standard knob 210 mm gerade, Standard-Griff
E	250 mm diritta pomello standard 250 mm straight standard knob 250 mm gerade, Standard-Griff
F	300 mm diritta pomello standard 300 mm straight standard knob 300 mm gerade, Standard-Griff
P	Parapolvere (disponibile solo per azionamento A - B - 1) Dust guard (available only for actuator A - B - 1) Abstreifer (nur für Betätigungen A, B und 1)
L	Ergonomica diritta verticale 180 mm Ergonomic straight vertical 180 mm Ergonomischer Hebel, gerade, 180 mm, vertikal
M	Ergonomica diritta orizzontale 180 mm Ergonomic straight horizontal 180 mm Ergonomischer Hebel, gerade, 180 mm, horizontal
Y	Ergonomica piegata 15° orizzontale 180 mm Ergonomic bent 15°, horizontal 180 mm Ergonomischer Hebel, 15° gebogen, 180 mm, horizontal
O	Ergonomica piegata 15° verticale 180 mm Ergonomic bent 15°, vertical 180 mm Ergonomischer Hebel, 15° gebogen, 180 mm, vertikal
Q	Ergonomica piegata 30° orizzontale 180 mm Ergonomic bent 30°, horizontal 180 mm Ergonomischer Hebel, 30° gebogen, 180 mm, horizontal
R	Ergonomica piegata 30° verticale 180 mm Ergonomic bent 30°, vertical 180 mm Ergonomischer Hebel, 30° gebogen, 180 mm, vertikal

