

Fittings type X

for pressure gauges and other hydraulic equipment
with tapped journal G 1/2 A (BSPP)

Pressure $p_{\max} = 630 \text{ bar}$

See also:

Fittings type X 84 (with tapped journal G 1/4 A (BSPP)) D 7077
Reducing connectors D 845

1. General

Fittings X are a versatile means of mounting gauges and monitoring devices, enabling optimized positioning at pipes, individual valves and valve banks.

2. Available versions, main data

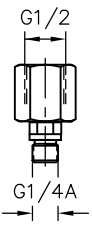
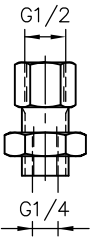
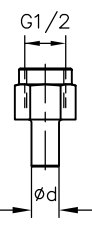
Order examples: **X 10 S -1**

X 1 - 5
X 3 - 7/100

Hydraulic equipment (table 3)

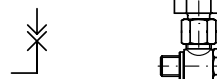
Straight screw-in fitting (table 2),
only together with adapter fitting.
Coding X 6 ... X 16 acc. to table 1

Table 1: Fittings

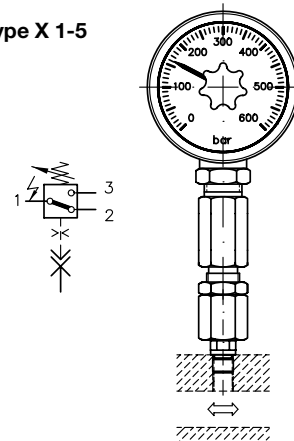
Version	Coding	Pressure p_{\max} (bar)
 <p>Adapter fitting, swivel type, with tapped journal G 1/4 A (BSPP)</p>	X 1	630
 <p>Adapter fitting with lock nut M 24x1.5 DIN 936 and connection thread G 1/4 (BSPP)</p>	X 3	630
 <p>Adapter fitting for cutting edge mounting via pipe fittings</p>	<p>Ød</p> <p>X 6 X 8 X 10 X 12 X 14</p>	630
	X 16	400

Mounting illustration
acc. to the order examples

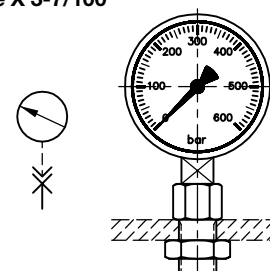
Type X 10 S-1



Type X 1-5



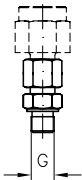
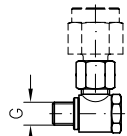
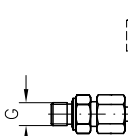
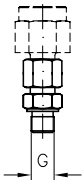
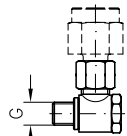
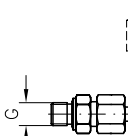
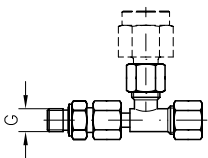
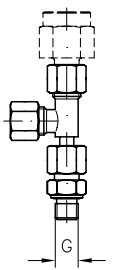
Type X 3-7/100



Order examples: **X 8 W - 5**
X 10 T - 8/100

See table 1 See hydraulic equipment acc. to table 3

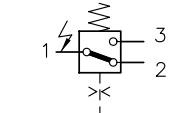

Table 2: Adapter fitting coding X 6 to X 16
in combination with straight screw-in fitting ¹⁾

Adapter fitting acc. to table 1	Pressure p _{max} (bar) ²⁾	G (BSPP)	Straight screw-in fitting		
			X .. G ³⁾	X .. S ²⁾	X .. V
X 6	630	G 1/4 A			
X 8					
X 10					
X 12	400	G 3/8 A			
X 14					
X 16					
<div>1) These adapter fitting may be combined also with other fitting types e.g. T- or X-type or other makes</div> <div>2) X .. S max. 400 bar</div> <div>3) It's better to use x1 (table 1) instead of X 6 G or X 8 G because of more sturdy design. This versions only make only sense as X10 or higher.</div>			X .. W		X .. T
					
			T-fitting (horizontal installation)		

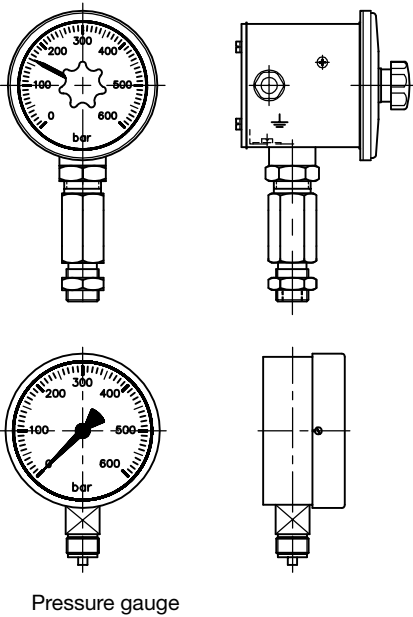
Order examples: **X 1 - 6**
X 10 G - 7/600

See table 1 and 2

Table 3: Hydraulic equipment

Device	Coding	Type	Pressure range (bar)
without	1	Adapter fitting without additional device	
 Pressure switch acc. to D 5440	5 5F 5S 5SF	DG 1 R DG 1 RF DG 1 RS DG 1 RFS	50 ... 600
	6 6F	DG 8 DG 8 F	Main switch 20 ... 600 Auxiliary switch 20 ... 180
 Pressure gauge with dampening, (Tolerance class 1.0, EN 837-1)	Housing-Ø (mm)	Coding	Coding for scale range (bar)
	100	7/...	100 250 400 600 1000
	160	8/...	

Illustration



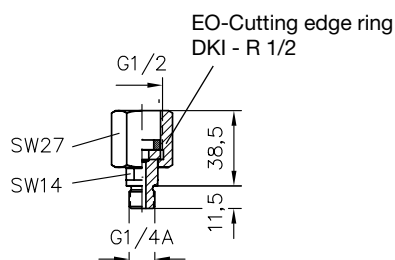
3. Additional data

Nomenclature	Fittings for hydraulic measuring units or other accessory with male thread G 1/2 A DIN ISO 228/1 (BSPP)
Design	Solder-less pipe fittings with sealing edge / cutting ring and tapped journals with sealing edge conforming DIN 2353 / DIN ISO 8434-1, Co. ERMETO, heavy duty design with or without ancillary parts acc. to over view in sect. 2
Material	All steel design surface zinc galvanized EO-components are additionally chromed yellow (A3C)
Installation position	Any
Pressure	Nominal pressure ND 630 bar (approx. 4-fold safety) Version X 16, (table 1) ND 400 bar Caution: Observe the permissible operating pressures of the components used in the hydraulic circuits!
Pressure fluid	Observe the pressure fluid specification for the other components of the system. When not specified otherwise the following applies: Hydraulic oil conforming DIN 51524 part 1 to 3: ISO VG 10 to 68 conforming DIN 51519 Viscosity limits: min. approx. 4, max. approx. 1500 mm ² /sec opt. operation approx. 10 ... 500 mm ² /sec. Also suitable are biologically degradable pressure fluids types HEPG (Polyalkylenglycol) and HEES (Synth. Ester) at service temperatures up to approx. +70°C.
Temperature	Observe the permissible temperature specification for the other components of the system. When not specified otherwise the following applies: Ambient: approx. -40 ... +80°C Fluid: -25 ... +80°C; note the viscosity range ! Permissible temperature during start: -40°C (observe start-viscosity!), as long as the service temperature is at least 20K higher for the following operation. Biologically degradable pressure fluids: Observe manufacturer's specifications. By consideration of the compatibility with seal material not over +70°C.

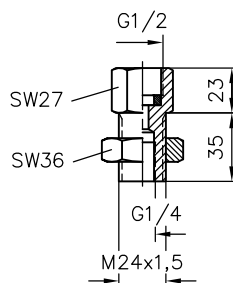
4. Dimensions

All dimensions are in mm, subject to change without notice!

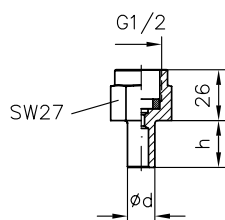
Type X 1



Type X 3

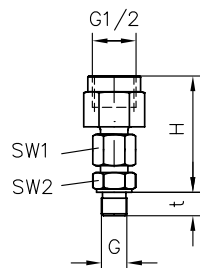


Type X 6 ... X 16

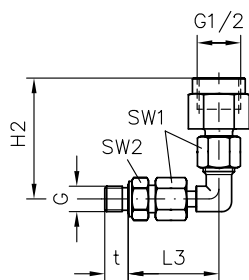


Type	Ød	h
X 6	6	18,5
X 8	8	18,5
X 10	10	20,5
X 12	12	21
X 14	14	24
X 16	16	24

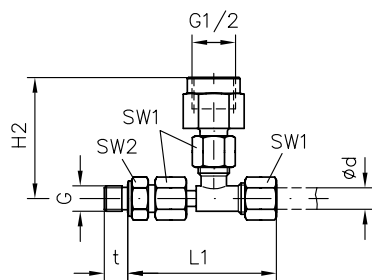
Type X .. G



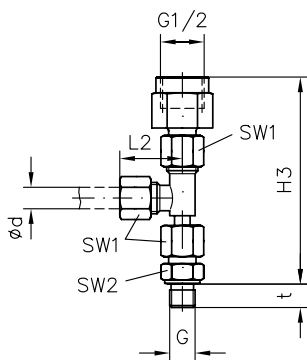
Type X .. V



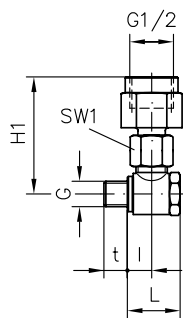
Type X .. W



Type X .. T



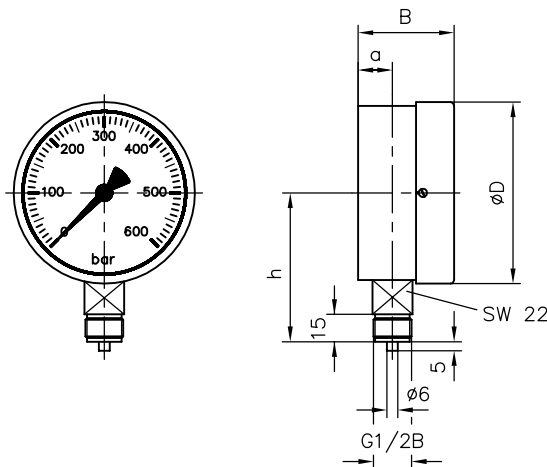
Type X .. S



SW = a/f

	Ød	G	L	L1	L2	L3	l	H	H1	H2	H3	t	SW1	SW2
X 6..	6	G 1/4 A	30	71	31	40	16	--	61,5	61	112	12	17	19
X 8..	8	G 1/4 A	30	74	32	44	16	--	61,5	62	114	12	19	19
X 10..	10	G 3/8 A	37	78	34	47	18	62	65,5	64,5	119,5	12	22	22
X 12..	12	G 3/8 A	37	85	38	50	18	64,5	66	69	123	12	24	22
X 14..	14	G 1/2 A	42	89	40	55	21	69	73	72	125	14	27	27
X 16..	16	G 1/2 A	46	97	43	56	23	68,5	72,5	74,5	128,5	14	30	27

Type 7/..., 8/...



ØD	B	h	a	m (kg)
101	51	87	17,7	0,6
161	49,5	118	15,5	1,0