

Product Catalog

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This series of prefilling valves includes TCF, SCF, CF,CFY,TRCF and STF series, which are mainly used for large flow filling or discharge of piston chamber of various hydraulic equipment in hydraulic transmission to improve its empty range speed. Among them, the CF type connection size conforms to the standard of German Rexroth company, so it can replace the imported products. This series of prefilling valve is normally closed, its working principle is similar to hydraulic control check valve, the flow from A to B can flow freely, and the flow from B to A is controllable. When X port is controlled, the check valve is opened, B to A passes. When the X port pressure relieved, the check valve is closed, B to A is blocked.

Features

- Low opening pressure, good self-priming performance.
- Smooth flow channel design and small flow resistance.
- Compact structure and small size.
- Low control pressure and reliable reset.

Technical data

Oil port	A	B	X
Rated pressure (bar)	16	320	200
Cracking pressure (bar)	0.2		
X port pressure when there is pre-discharge (bar)	$P_x=0.05P_b+5$		
Working medium	mineral oil hydraulic oil		
Oil temperature range (°C)	-20~+60		
Viscosity range (mm ² /s)	2.8~380		
Oil cleanliness	maximum permissible oil contamination level is NAS 1638 Level 9. We recommend a minimum filter ratio of $B_{10} \geq 75$.		

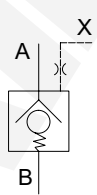
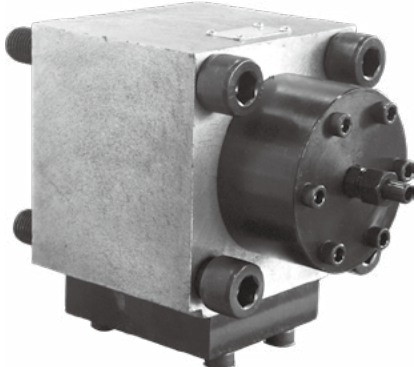
Note: P_b indicates the pressure at port B, and P_x indicates the pressure at port X.

Nominal diameter flow rate (L/min)

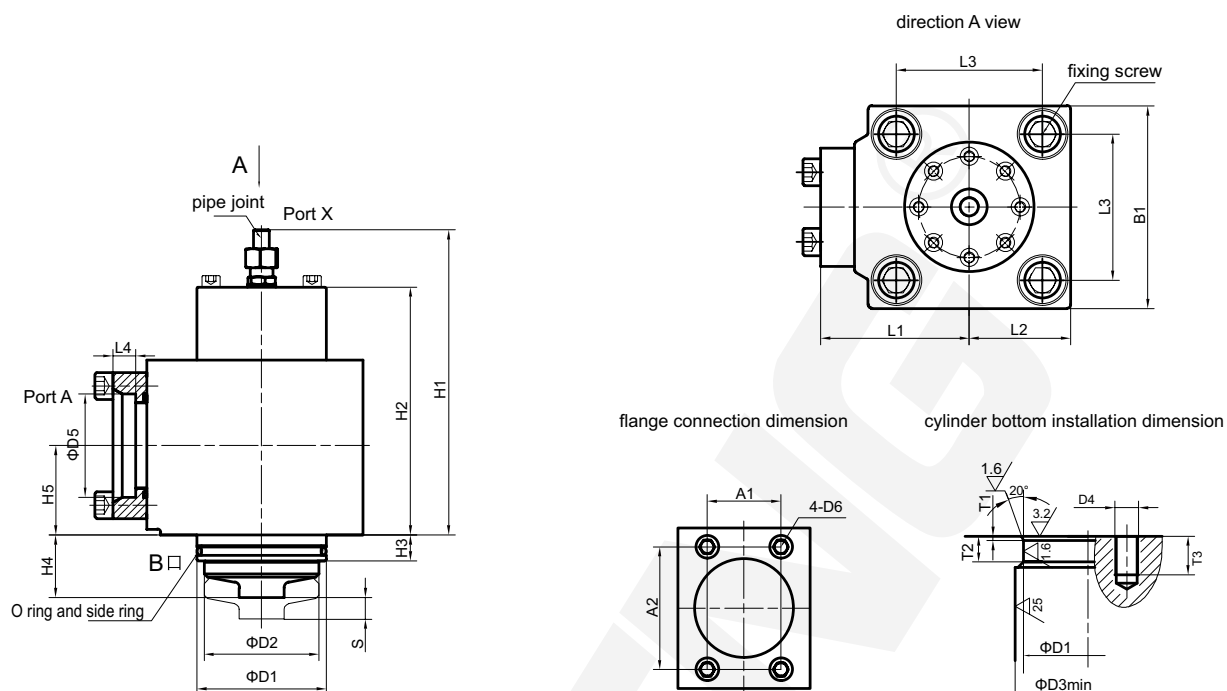
Dg (mm) V (m/s)	40	50	63	80	100	125	160	200	250	300	350	400
1.5	114	177	279	456	706	1104	1809	2826	4419	6358	8654	11304
2.0	152	236	372	608	942	1472	2412	3768	5892	8480	11540	15080
2.5	190	295	465	760	1178	1840	3015	4710	7365	9750	13280	17340
3.0	228	354	558	912	1413	2208	3618	5652	8838	14000	19050	24880
3.5	266	413	651	1064	1649	2576	4221	6594	10311	15600	22480	30600
4.0	304	472	744	1216	1884	2944	4824	7536	11784	16800	23900	31550

Thread tightening torque

Thread diameter	16	20	24	30	36	42	52	64
Thread strength level	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
Permissible tightening torque (Nm)	250	500	900	1800	3100	5000	10000	20000

Taifeng Intelligent	TCF series prefilling valve		TAIFENG®
	Size(DG) 40 to 100	Maximum pressure 320bar	
Model description			
<div>TCF1 — H**B</div> <div>12345</div>			
<div><div><div>1.Basic model</div><div>TCF— TCF series prefilling valve</div></div><div><div>2.Pre-discharge function</div><div>1 – with</div><div>2 – without</div></div><div><div>3.Pressure class</div><div>H – 320bar</div></div><div><div>4.Size</div><div>40 – DG40</div><div>50 – DG50</div><div>63 – DG63</div><div>80 – DG80</div><div>100 – DG100</div></div><div><div>5.Connection method</div><div>B – plate connection, installed at the cylinder bottom, with housing,pipe connection to the filling tank</div></div><div><div>Principle symbol</div><div></div></div><div><div></div></div></div>			

TCF-H-H**B prefilling valve installation dimension (size DG40-DG100)



Size	Weight (Kg)	D1H7/f7	D2	D3min	D4	D5	D6	L1	L2	L3	L4	Pipe joint	Fixing screw
40	18	62	56	66	M16	52	M12	91	50	75	14	10/M14*1.5	M16*130
50	25	80	67	84	M20	64	M12	94	65	90	10	10/M14*1.5	M20*150
63	32	95	82	104	M24	77	M16	109.5	72.5	105	16	10/M14*1.5	M24*170
80	55	115	102	130	M30	92	M16	126	90	130	14	14/M18*1.5	M30*200
100B	65	150	120	170	M36	116	M16	150	110	165	15	14/M18*1.5	M36*230
① 100C	67	150	120	170	M30	116	M16	140	100	155	15	14/M18*1.5	M30*220

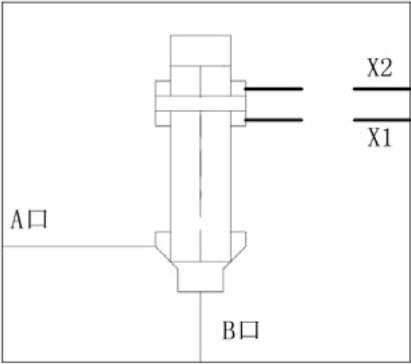
Size	A1	A2	H1	H2	H3	H4	H5	T1	T2	T3	S	B1	O ring	Side ring
40	43	78	196	152	15	34	53	3	18	32	10	100	56.82*2.62	62*57.8*1.5
50	51	89	222	180	20	57	58	3	23	35	15	125	69.22*5.33	80*71.6*1.5
63	62	106.5	265	215	23	56	71.5	4	23	40	16	145	85.09*5.33	95*86.6*1.5
80	62	106.5	267	220	23	55	79.5	4	23	50	18.5	180	104.14*5.33	115*106.6*1.5
100B	78	130	297	250	23	70	90	4	25	60	24	220	139.07*5.33	150*141.6*1.5
100C	78	130	297	250	23	70	90	4	25	50	24	200	139.07*5.33	150*141.6*1.5

① TCF type DG100 plate structure has two connection sizes, 100B and 100C, users can choose according to their needs. 100C type is recommended for use below 25MPa.

Notes:

1. Installation requirements: We recommend vertical installation.
2. Special requirements: If the user has special requirements for the valve's function, parameters, installation connection form and size, a special order can be placed.
3. We have 10.9 grade high-strength screws for fixing screws. If you need screws with other pitches, please note the pitch.

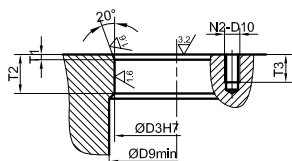
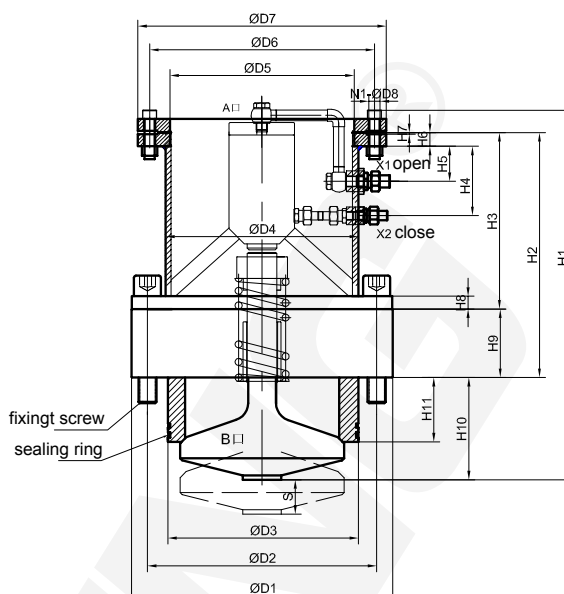
Taifeng Intelligent	SCF series prefilling valve Size(DG150 to DG400)			TAIFENG®
Overview				
<p>SCF series prefilling valves are specially designed for fast cylinders. They are mainly used for large flow prefilling or draining of fast cylinder plugs to increase their idle stroke speed and return stroke speed. Compared with the traditional prefilling valve, the control piston is hydraulically controlled in both directions, with fast response speed, which can more effectively improve its fast down speed and return speed. The structure is compact, safe and reliable.</p>				
Features				
<ul style="list-style-type: none">• The control piston is controlled in both directions, with a fast response speed.• The flow channel design is smooth, with a small flow resistance.• The control pressure is low, and the reset is reliable.• The structure is compact, with the smallest external dimensions.				
Technical Data				
Oil Port	A	B	X1	X2
Rated Pressure (bar)	16	320	200	200
Opening Pressure (bar)	0.5			
Working Fluid	Mineral - based hydraulic oil			
Oil Temperature Range oil(°C)	-20~+60			
Viscosity Range (mm ² /s)	2.8~380			
Oil Cleanliness \multicolumn	The maximum allowable contamination level of the oil is NAS 1638 Class 9. We recommend a minimum filter ratio of B ₁₀ ≥75.			
				

Taifeng Intelligent	SCF series prefilling valve Size(DG150 to DG400)	TAIFENG®
Model description		
<div> <div> <div>SCF</div> <div>1</div> </div> <div>-</div> <div> <div>H</div> <div>2</div> </div> <div>***</div> <div>3</div> <div>BT</div> <div>4</div> <div>-</div> <div> <div>00</div> <div>5</div> </div> </div>		
<div> <div>1.Basic model</div> <div> SCF – SCF series prefilling valve </div> </div> <div> <div>2.Pressure level</div> <div> H – 320bar </div> </div> <div> <div>3.Nominal diameter</div> <div> 150 – DG150 200 – DG200 250 – DG250 300 – DG300 350 – DG350 400 – DG400 </div> </div>	<div> <div>4.Connection method</div> <div> BT— plate connection, installed at the cylinder bottom, with housing and pipe connection to the filling cylinder. JT— plate type connection, installed at the cylinder bottom, without housing immersed in the filling tank. </div> </div> <div> <div>5.Design series</div> <div> 6.This type of prefilling valve does not have pre-release. </div> </div> <div> <div>hydraulic circuit drawing</div> <div>  </div> </div>	

SCF series prefilling valve (sizeDG150–DG400)

sizeDG150-DG400B/J type

Cylinder bottom installation dimensions



Size	D1	D2	D3H7/f7	D4	D5	D6	D7	D8	D9	D10	X1 pipe joint	X2 pipe joint	N1	N2	H1
150	340	270	200	206	210	290	340	22	225	M30*2	10/M14*1.5	10/M14*1.5	8	12	550
200	390	320	250	256	260	340	390	22	295	M36*3	14/M14*1.5	14/M14*1.5	12	12	633
250	490	420	300	325	328	410	460	26	350	M36*3	18/M18*1.5	14/M14*1.5	12	18	688
300	555	470	380	377	381	470	520	26	450	M42*3	22/M22*1.5	18/M18*1.5	16	18	783
350	610	535	445	450	430	525	580	26	520	M42*3	28/M27*2	22/M22*1.5	20	24	878
400	750	640	510	500	480	585	640	26	600	M52*3	34/M33*2	22/M27*2	20	20	996

Size	H2	H3	H4	H5	H6	H7	H8	H9	H10	H11	S	T1	T2	T3	O ring	Side ring	Fixing screw
150	338	248	100	60	28	4	20	90	164	120	40	10	120	49	189.87*5.33	200*191.6*1.5	M30*2*150
200	378	278	116	76	28	4	25	100	207	140	45	10	140	58	240.67*5.33	250*241.6*1.5	M36*3*180
250	423	303	125	75	28	4	25	120	217	150	53	10	150	60	278.77*6.99	300*288.7*2.5	M36*3*200
300	502	362	127	67	32	4	30	140	229	150	72	12	150	68	367.67*6.99	380*368.7*2.5	M42*3*230
350	572	412	162	82	32	4	30	160	239	150	80	12	150	68	430.66*6.99	445*433.7*2.5	M42*3*250
400	640	450	177	67	36	4	30	190	286	165	92	12	170	80	494.16*6.99	510*498.7*2.5	M52*3*300

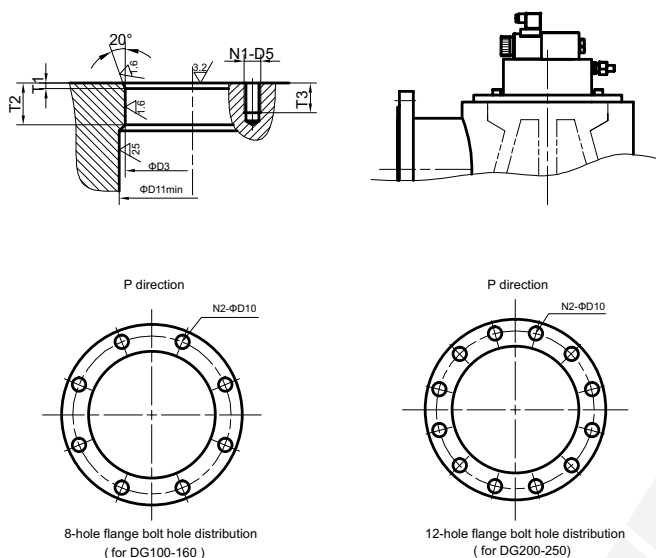
Notes:

1. Installation requirements: We recommend vertical installation.
2. Special requirements: If the user has special requirements for the valve's function, parameters, installation connection form and size, a special order can be placed.
3. For fixing screws, we recommend using 10.9 grade high-strength standard screws.

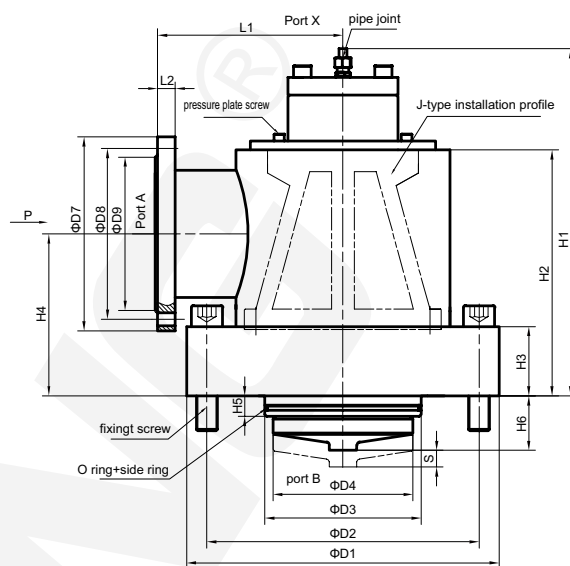
Taifeng Intelligent	CF series prefilling valve				TAIFENG®
	Size(DG) 100 to 400		Maximum pressure 320bar		
Model description					
<div>CF1 - DG24 - H***B - NX</div> <div>12345678</div>					

CF series prefilling valve installation dimension (sizeDG100–DG250B/J type)

Cylinder bottom installation dimensions partial appearance with solenoid valve



appearance without solenoid valve



Installation precautions:

DG100-DG250b type prefilling valve, when installing, the screw under port A should be installed last. When installing the screw here, first loosen the pressure plate screw, gently rotate the shell to a certain angle (for easy installation), and then install it. After the installation is completed, reset the shell and tighten the pressure plate screw again. Since there are seals on both the upper and lower parts of the shell, please be careful when turning to avoid damaging the seals.

Size	Weight(Kg)	D1	D2	D3H7f7	D4	D5	D7	D8	D9	D10	D11	L1	L2	Pipe joint
100	75	280	250	140	125	M20	210	180	158	18	178	215	18	14/M18*1.5
125	130	370	310	175	156	M24	245	210	185	18	222	245	30	14/M18*1.5
160	200	440	380	220	195	M30	280	240	210	23	280	284	32	14/M18*1.5
200	370	540	470	270	242	M36	335	295	265	23	320	324	34	14/M18*1.5
250	620	620	540	335	300	M42	405	355	325	26	370	370	32	14/M18*1.5

Size	H1	H2	H3	H4	H5	H6	T1	T2	T3	S	N1	N2	O ring	Side ring	Fixing screw
100	328	242	68	163	23	61.4	4	25	35	20	16	8	129.54*5.33	140*131.6*1.52	M20*100
125	397	267	80	180	28	75	4	30	42	26	16	8	164.47*5.33	175*166.6*1.52	M24*120
160	469	318	100	220	32	85	4	35	52	34.5	16	8	208.92*5.33	220*211.6*1.52	M30*150
200	600	425	120	280	35	94	4	38	55	54	16	12	253.37*5.33	270*261.6*1.52	M36*170
250	678	500	160	350	40	103	5	43	63	67	16	12	316.87*6.99	323.7*335*2.5	M42*220

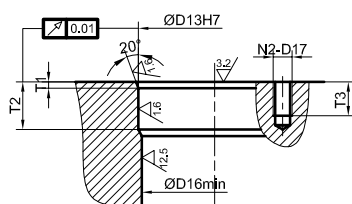
Notes:

1. Installation requirements: We recommend vertical installation.
2. Special requirements: If the user has special requirements for the valve's function, parameters, installation connection form and size, a special order can be placed.
3. We have 10.9 grade high-strength screws for fixing screws. If you need screws with other pitches, please note the pitch.

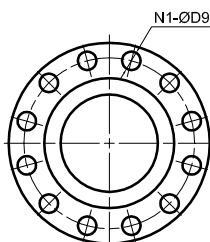
CF series prefilling valve installation dimension (sizeDG300–DG400B/J type)

sizeDG300-DG400B/J type

Cylinder bottom installation dimensions

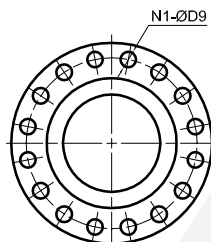


P direction

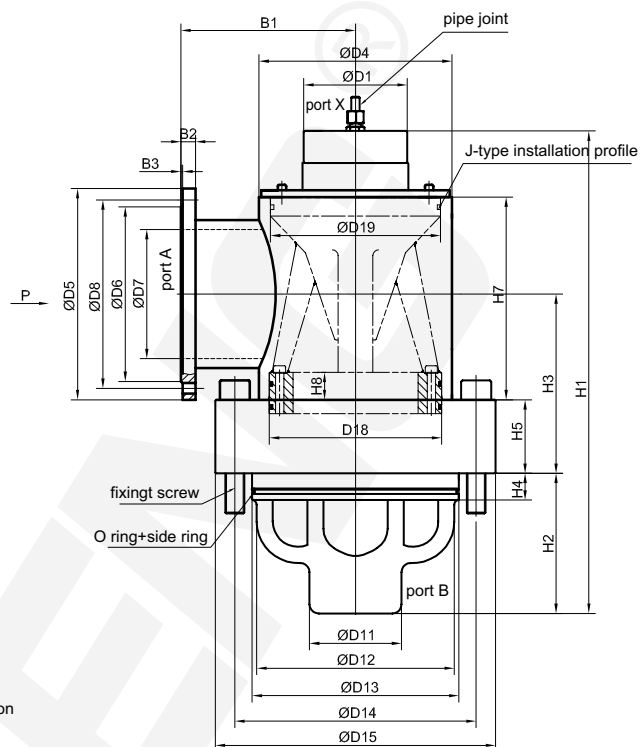


12-hole flange bolt hole distribution
(for DG300)

P direction



16-hole flange bolt hole distribution
(for DG350-400)



Size	Weight(Kg)	B1	B2	B3	D4	D5	D6	D7	D8	D9	D11	D12	D13	D14	D15	D16	D17	Pipe joint	Fixing screw
300	1000	380	32	4	440	460	378	310	410	26	200	430	450	525	610	435	M42*3	28/M33*2	M42*3*230
350	1260	440	30	4	540	520	430	340	470	26	240	530	550	640	750	535	M52*3	34/M33*2	M52*3*290
400	1800	530	32	4	605	560	470	390	515	27	260	600	625	720	850	605	M64*3	34/M42*2	M64*3*310

Size	D18	D19	H1	H2	H3	H4	H5	H7	H8	N1	N2	T3	T2	T1	D1	O ring	Side ring
300	375	370	1050	305	390	58	160	442	59	12	24	75	65	8	225	430.66*6.99	450*438.4*2.5
350	455	450	1240	350	470	56	210	500	60	16	24	84	65	8	275	523.26*6.99	538.4*550*2.5
400	530	525	1415	390	520	55	220	577	80	16	20	103	65	8	320	608.08*6.99	625*613.4*2.5

Notes:

1. Installation requirements: We recommend vertical installation.
2. Special requirements: If the user has special requirements for the valve's function, parameters, installation connection form and size, a special order can be placed.
3. For fixing screws, we recommend using 10.9 grade high-strength standard screws.

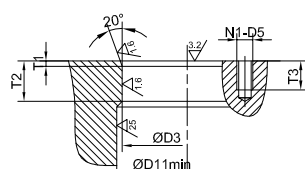
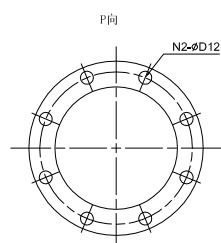
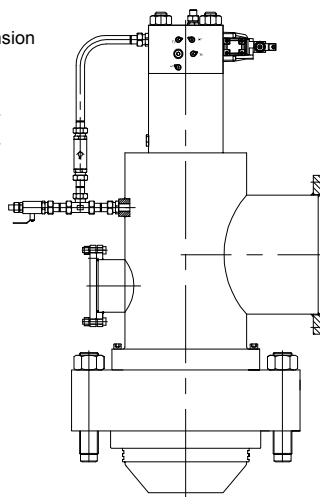
Taifeng Intelligent	CFY series prefilling valve		TAIFENG®
	Size(DG) 160 to 550	Maximum pressure 320bar	
Model Description			
<div>CFY - D G24 - H *** B - NX</div> <div>1 2 3 4 5 6 7</div>			
<div><div><div>1.Basic model</div><div>CFY– CFYseries prefilling valve</div></div><div><div>2.Solenoid valve</div><div>D – With solenoid valve, solenoid valve fixed on the end cap</div><div>no mark – without solenoid valve</div></div><div><div>3.Voltage</div><div>G24 – DC 24V</div><div>W220 – AC 220V</div><div>no mark – o marking is required for non-D type</div></div><div><div>4.Pressure level</div><div>H – 320bar</div></div><div><div>5.Nominal diameter</div><div>160 – DG160</div><div>200 – DG200</div><div>250 – DG250</div></div></div> <div><div><div>300 – DG300</div><div>350 – DG350</div><div>400 – DG400</div><div>450 – DG450</div><div>500 – DG500</div><div>550 – DG550</div></div><div><div>6.Type of connection</div><div>B – Plate connection, installed at the cylinder bottom, with housing and pipe connection to the filling cylinder.</div></div><div><div>7.Design series</div><div>NX - new series</div></div></div>			

CFY series prefilling valve(Size DG160–DG550)

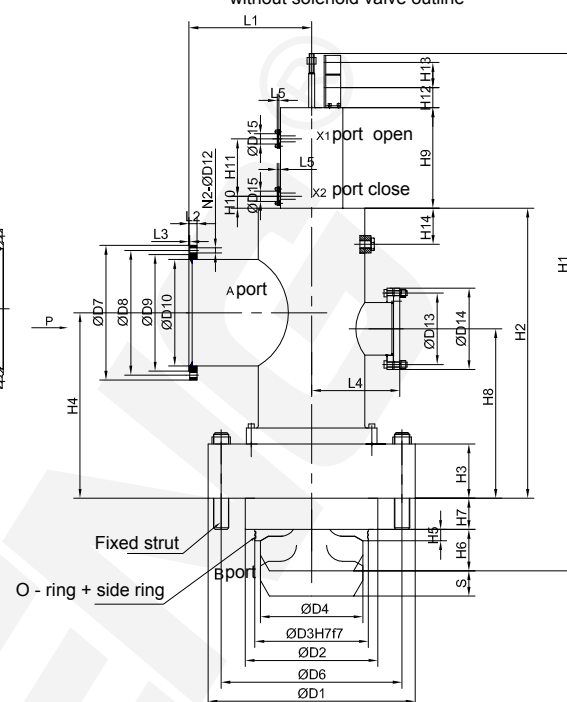
DG160–550mm Size Type B

with solenoid valve outline

Cylinder bottom installation dimension



without solenoid valve outline

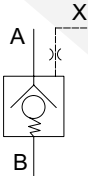


Size	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	L1	L2	L3	L4	L5	H1	H2
160	440		220	195	M30	380	335	295	268	160	280	22			22/M27×2	284	30	4			785	395
200	540		270	242	M36	470	340	295	265	207	320	22			22.5	320	34	4		11	1020	540
250	650	420	320	305	M48	550	460	410	370	300	360	26			28.5	400	32	4		12	1529	800
300	700	500	380	315	M56	590	505	460	420	349	450	22			28.5	450	40	4		12	1736	860
350	820	572	450	387	M64	700	520	470	430	350	520	26			28.5	500	30	4		12	1890	950
400	1030	660	565	510	M76	900	670	620	580	490	650	26	355	405	43	570	40	4	439	16	2374	1243
450	1100	715	600	570	M80	950	715	650	582	500	700	30	355	405	43	600	40	5	500	16	2692	1390
500	1050	765	675	640	M76	920	780	725	685	600	780	30	355	405	43	650	40	5	510	16	2545	1410
550	1400	880	770	725	M100	1200	790	730	685	600	880	32	355	405	43	750	40	5	550	16	2995	1530

Size	H3	H4	H5	H6	H7	H8	H9	H10	H11	H12	H13	H14	T1	T2	T3	S	N1	N2	O ring	Side ring	Fixing screw
160	100	260	32	69			220	60	118	28	50		9	35	45	40	16	8	208.92*5.33	220*211.6*2	M30×140
200	100	360	35	80			280	69	157	42	49		10	35	55	60	16	12	253.37*5.33	270*261.6*2	M36×190
250	175	500	55	124	50		350	50	195	100	60	180	5	55	75	65	16	12	304.17*6.99	320*308.7*2.5	M48×280
300	140	550	100	195	95		380	50	225	100	60	180	10	110	85	60	16	16	367.67*6.99	380*368.7*2.5	M56×390
350	170	600	120	215	95		410	50	255	100	90	180	10	120	96	90	16	16	430.66*6.99	450*438.7*2.5	M64×445
400	240	725	56	206	155	643	500	60	285	100	125	180	6	60	115	125	18	20	545*7	565*553.7*2.5	M76×480
450	270	830	59	235	192	730	515	60	285	100	130	200	10	60	120	130	18	20	582.68*6.99	600*588.7*2.5	M80×500
500	260	850	60	245	170	800	250	70	270	90	120	250	6	60	115	120	20	20	650*7	675*663.7*2.5	M76×510
550	370	1000	68	390	230	900	545	63	295	100	140	250	7	70	150	140	18	20	750*7	770*758.7*2.5	M100×650

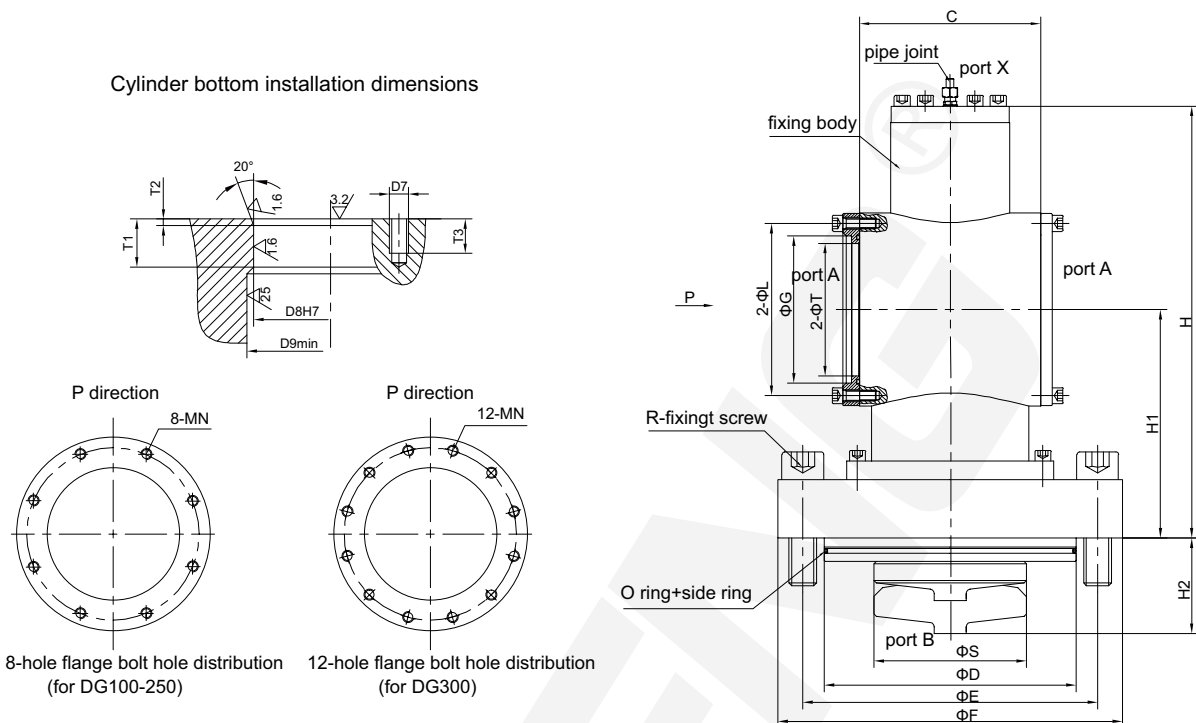
Notes:

1. Installation requirements: We recommend vertical installation.
2. Special requirements: If the user has special requirements for the valve's function, parameters, installation connection form and size, a special order can be placed.
3. We have 10.9 grade high-strength screws for fixing screws. If you need screws with other pitches, please note the pitch.

Taifeng Intelligent	TRCF series prefilling valve		TAIFENG®
	Size(DG) 100 to 300	Maximum pressure 320bar	
Model Description			
<div>TRCF1 - ***A1 - 10</div>			
<div>1. Basic model</div> <div>TRCF – TRCF series prefilling valve</div>			
<div>2. Pre-release function</div> <div>1 – with pre-release</div> <div>2 – without pre-release</div>			
<div>3. Nominal diameter</div> <div>100 – DG100</div> <div>125 – DG125</div> <div>150 – DG150</div> <div>200 – DG200</div> <div>250 – DG250</div> <div>300 – DG300</div>			
<div>4. Cracking pressure</div> <div>A1 – 0.2bar</div>			
<div>5. Design series</div>			
<div>Principle symbol</div> <div></div>			
<div></div>			

TRCF series prefilling valve installation size(size DG100–DG300)

Cylinder bottom installation dimensions

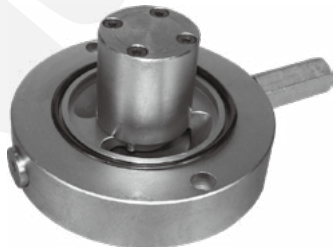


Size	Weight(Kg)	C	D	E	F	L	D7	D8H7	D9	T	G	R	Fixing screw
100	80	168	200	250	300	146	M30	200	200	100	116	12	M30*90
125	124	202	240	300	370	174	M36	240	240	125	142	12	M36*110
150	180	242	290	352	405	200	M36	290	290	155	170	15	M36*120
200	318	274	380	445	520	260	M42	380	380	200	222	18	M42*160
250	464	314	430	515	590	316	M42	430	430	250	276	24	M42*180
300	1012	382	530	640	730	378	M52	530	530	300	328	24	M52*200

Size	S	H	H1	H2	T1	T2	T3	MN	O ring	Side ring	Pipe joint
100	130	387	224	92	50	4	60	8-M10	200*5.7	190.8*200*2	10/M14*1.5
125	153	452	240	100	70	4	70	8-M12	240*5.7	230.8*240*2	14/M18*1.5
150	182	515	280	122.5	80	4	70	8-M12	290*5.7	280.8*290*2	14/M18*1.5
200	230	652	345	144	100	5	85	8-M16	380*5.7	370.8*380*2	14/M18*1.5
250	286	750	420	156	100	5	85	8-M16	430*5.7	420.8*430*2	18/M22*1.5
300	340	885	500	171	100	6	105	12-M20	506.86*6.99	518.2*530*2	22/M27*2

Notes:

1. Installation requirements: We recommend vertical installation.
2. Special requirements: If the user has special requirements for the valve function, parameters, installation connection form and size, special orders can be placed.
3. We provide users with a welding flange and a blind flange. Users can choose any side as port A as needed.
4. We recommend using 10.9 grade high-strength standard screws for fixing screws. If you need fine-thread screws, please note the pitch.

Taifeng Intelligent	STF series prefilling valve		TAIFENG®					
Overview								
<p>STF series filling valve belongs to the stop valve category, mainly used for large flow filling or draining of various oil cylinder plug chambers to increase their idle speed and return speed.</p> <p>It can be installed in the pipeline through high-pressure flange stacking, so installation and maintenance are very convenient, and it can replace imported products. This series of filling valves is normally closed, and its working principle is similar to that of hydraulic control check valves. The flow direction A → B can flow freely, while the flow direction B → A is controllable. When there is control pressure at port X, the check valve opens, and B → A is connected. When the pressure at port X is released, the check valve closes, and B → A is blocked.</p>								
Features								
<ul style="list-style-type: none">● Low cracking pressure, good self - priming performance● Smooth flow path design, low flow resistance● Low control pressure, reliable reset● Intermediate flange installation connection form, convenient maintenance● Compact structure, small dimensions								
Technical data								
Oil port	A	B	X					
Rated pressure(bar)	16	320	≤ 150					
Cracking pressure (bar)	0.2							
Working fluid	mineral oil hydraulic oil							
Oil temperature range (°C)	-20~+60							
Viscosity range (mm²/s)	2.8~380							
Oil cleanliness	The maximum permissible oil contamination level is NAS 1638 level 9. We recommend a minimum filter ratio of B ₁₀ ≥ 75.							
Nominal diameter flow rate (L/min)								
Dg (mm) Flow	32	40	50	63	80	100	125	160
Q (L/min)	160	250	400	630	1000	1600	2500	4000

STF series prefilling valve (DG32–DG160)

Model description

$\frac{\text{STF}}{1} - \frac{\text{H}}{2} \frac{40\text{B}}{3} \frac{\text{NX}}{4} - \frac{\text{V}}{5}$

1.Basic model

STF – STF series
prefilling valve

2.Pressure class

H – 320bar

3.Nominal diameter

32 – DG32

40 – DG40

50 – DG50

63 – DG63

80 – DG80

100 – DG100

125 – DG125

160 – DG160

4.Design series

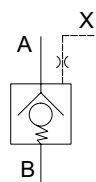
NX – New Series

5.Seal material code

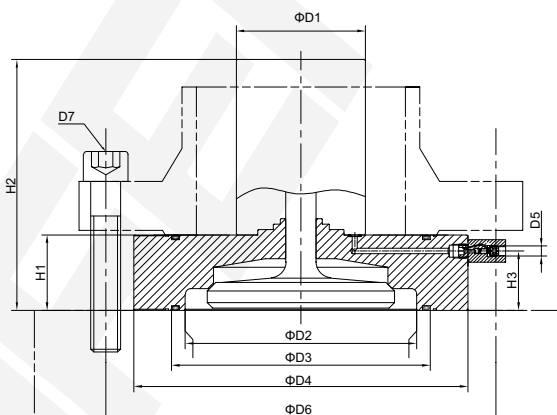
no code - nitrile rubber

V – fluorine rubber

Principle symbol



Installation size



Size	H1	H2	H3	D1	D2	D3 (O ring)	D4	D5	D6	D7
32	27	55	16	34	43	50.39*3.53	93	G1/4	110	4-M16
40	28	60	16.5	39	54	63.09*3.53	108	G1/4	125	4-M16
50	29	72	17	46	73	82.14*3.53	128	G1/4	145	8-M16
63	33.5	83	22	50	86	94.62*3.53	143	G1/4	160	8-M16
80	38.5	97	27	56	108	116.84*3.53	169	G1/4	190	8-M20
100	44	118	32	69	132	142.24*3.53	212	G1/4	240	8-M27
125	51	155	39	88	170	183.52*3.53	248	G1/4	280	8-M30
160	70	233	55	120	215	227.97*3.53	310	G1/4	345	12-M33

Note: The splints and screws must be ordered separately. If necessary, please note that they are required.

STFK Prefilling Valve Installation Dimension (Size DG125–DG250)

Overview

STFK series prefilling valve is a two-way control structure, mainly used for large-flow filling or draining of the fast oil cylinder plug chamber to increase its idle speed and return speed. Compared with the traditional prefilling valve, the control piston is a two-way hydraulic control, and the flow of the control oil can be adjusted according to the requirements of the press speed, which can more effectively increase its fast down speed and return speed. It needs to be immersed in the oil tank or clamped on the pipeline for use. The structure is compact, safe and reliable.

Features

- The control piston has two-way control and long service life.
- The flow channel design is smooth and has low flow resistance.
- The control pressure is low and the reset is reliable.
- The structure is compact, with the smallest external dimensions.

Technical data

Oil port	A	B	X1	X2
Rated pressure(bar)	30	350	200	200
Cracking pressure (bar)	0.5			
Working fluid	mineral oil			
Oil temperature range (°C)	-20~+60			
Viscosity range (mm ² /s)	2.8~380			
Oil cleanliness	The maximum permissible oil contamination level is NAS 1638 level 9. We recommend a minimum filter ratio of $B_{10} \geq 75$.			

STFK series prefilling valve (DG125–DG250)

Model description

$$\begin{array}{c} \text{STFK} - \text{H}^{***} \\ \hline 1 \quad 2 \quad 3 \end{array} \quad \begin{array}{c} \text{BTD} - 00 \\ \hline 4 \quad 5 \end{array}$$

1.Basic model

STFK — STFK series prefilling valve

2.Pressure level

H — 350bar

3.Nominal diameter

125 — DG125
 150 — DG150
 200 — DG200
 250 — DG250

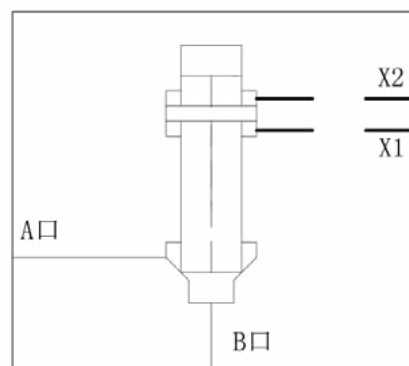
4.Type of connection

BTD— plate type connection, installed at the cylinder bottom, without housing immersed in the filling tank.

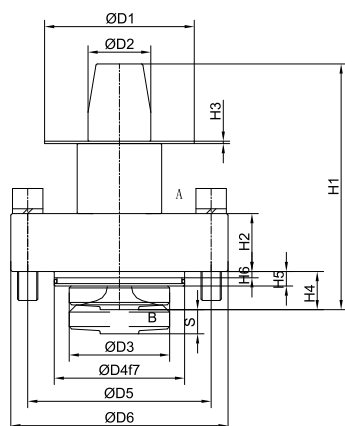
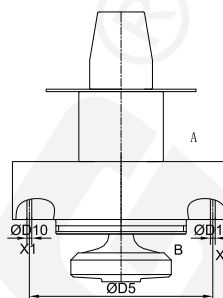
5.Design series

6.This type of prefilling valve does not have pre-release.

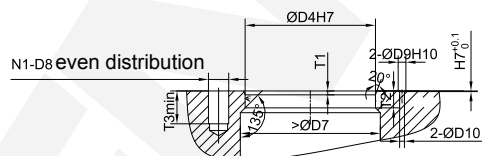
hydraulic circuit drawing



STFK series prefilling valve (DG125–DG250)



cylinder bottom installation dimension



Size	Weight (Kg)	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	N1		
200		310	130	208	270	380	450	290	M42	16	10	16		
Size	H1	H2	H3	H4	H5	H6	H7	S	T1	T2	T3	O ring	Side ring	Fixing screw
200	500	120	5	79	30	13	1.3	50	8	35	68	253.37*6.99	270*258.7*2.5	M42*190

Notes:

1. Installation requirements: We recommend vertical installation.
2. Special requirements: If the user has special requirements for the valve's function, parameters, installation connection form and size, a special order can be placed.
3. We have 10.9 grade high-strength screws for fixing screws. If you need screws with other pitches, please note the pitch.